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No. 2172

SEPTEMBER 10, 1921.

VOL. XCV.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

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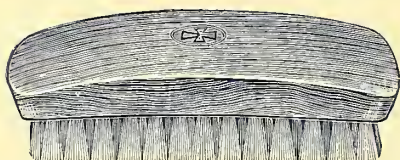


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B 862	11	Rosewood, $\frac{3}{4}$ in. white bristle	21/-
B 1230	11	Ebony, solid, $\frac{3}{4}$ in. white bristle	45/-
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B 1188	10	Satin, screwed, $1\frac{3}{8}$ in. yellow whalebone	36/-
113 A. 9	9	Satin, screwed, $1\frac{5}{8}$ in. whalebone, flat cut	48/-

MILITARY.

B 651	13	Ebonised, concave, $\frac{7}{8}$ in. stiff white bristle (Super quality)	48/-
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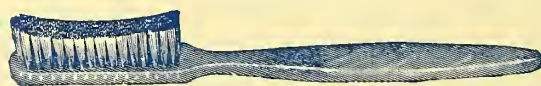
NAIL BRUSHES.



No.	Rows.		Per Doz.
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607	$6\frac{1}{4} \times \frac{7}{8}$ in.	Black Galalith, super quality	4/-
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611	$6\frac{3}{4} \times \frac{7}{8}$ in.	" " " "	4/3
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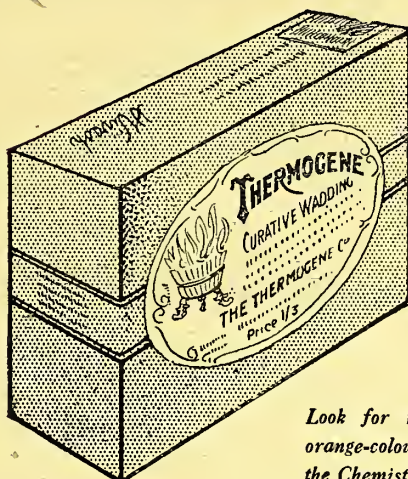
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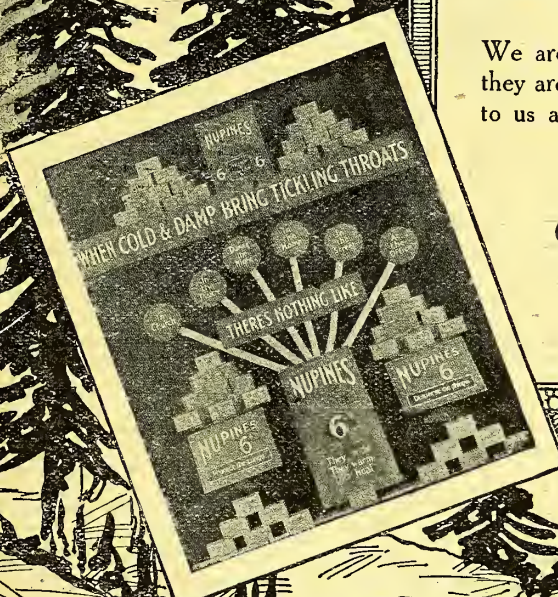
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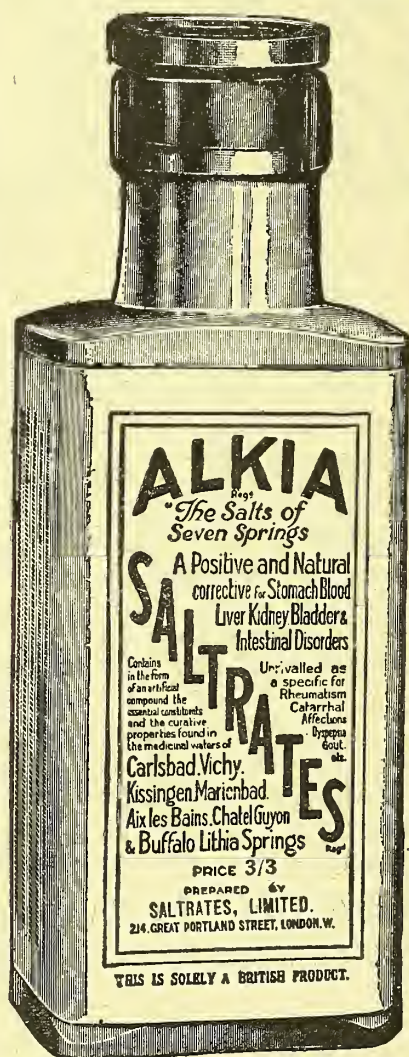
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THIS IS SOLELY A BRITISH PRODUCT.

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A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 3/3 a large bottle.

A FEW OF THE OF ALKIA SALTRATES AND who have written us praising them



Mr. A. F. BETTINSON,
Founder and Manager,
National Sporting Club.



Mr. EUGENE CORRI
Famous Referee.



JIMMY WILDE,
World's Champion Boxer



ERNEST BARRY,
World's Sculling
Champion.



PETER LATHAM,
One time World's
Champion Tennis and
Racquets.



ALFRED SHRUBB,
Champion Long-distance
Runner, Holds Nine
World's Records.

FURTHER ENDORSEMENT.

Amongst the hundreds of other well-known people in the Sporting World from whom we have received letters telling us of the benefits they have derived from using our products are:-

Fred Fulton; Eddie McGoorty; Jim Sullivan; Johnnie Basham; Young Heslop; T. Deschamps; Ted Lewis; W. R. Applegarth; W. G. George; J. E. Deakin; Alfred Felton; W. G. East; D. C. Hadfield; G. Rogers; Arthur Nightingale; W. J. Bailey; The Tottenham Hotspur and Wolverhampton Football Clubs.

Not designed as the cheapest preparations of the

YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.

Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

Can Recommend with Full Confidence

because they do exactly what our advertisements say.

PROMINENT USERS

REUDEL BATH SALTRATES,
products in the highest possible terms.



GEORGES CARPENTIER,
Famous Heavy-weight
Champion.



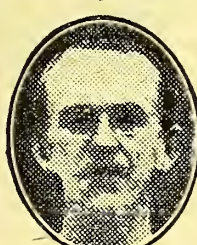
JOE BECKETT,
English Heavy-weight
Champion.



BILLY WELLS,
Famous Boxer.



JACK HOBBS,
Famous All England
Cricketer.



TOM PAYNE,
Champion Long-distance
Walker. Holder of Three
World's Records.



ABE MITCHELL,
Golfing Champion.

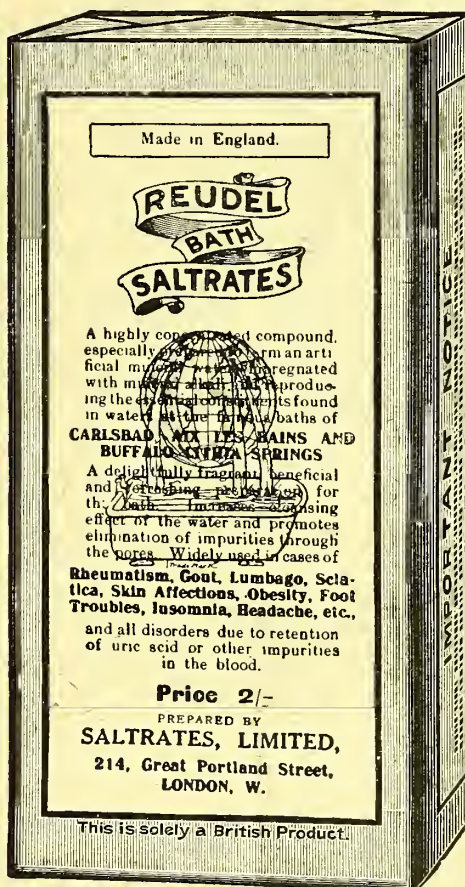
Thousands of commendatory letters on file,
and open to examination by anyone.

Members of the medical profession, trained nurses, prominent business men,
actors and actresses, men well known in the Army, Navy, sporting world,
and walks of life are amongst thousands of the correspondents who have written
praising our Saltrates in the highest possible terms after having experienced
marked curative effects. The ethics of the medical profession do not permit
making public any physicians' names, but our files of other commendatory
letters are open to inspection by anyone at any time.

WE CAN GUARANTEE IMMEDIATE DELIVERY OF ORDERS FOR ANY QUANTITIES.

We are fortunate in being able to announce
that foresight shown in the laying in of very
heavy stocks of supplies in anticipation of the
shortage which afterwards developed, still
enables us to guarantee full and prompt
delivery of orders for any quantities.

REUDEL BATH SALTRATES.



The best selling and most
fragrant, refreshing, beneficial
and all-round satisfactory pre-
paration for the bath or for
general toilet purposes.

Especially recommended in
cases of foot trouble or rheu-
matic pains, stiffness, etc. Now
being extensively advertised.

Protected on P.A.T.A. at the full face
values of 2/- and 3/3 (double size).

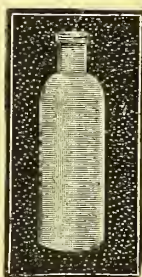
A GREAT ADVANTAGE

to the Trade is to know where to apply in an emergency for nearly every requisite in GLASSWARE with the certainty of immediate delivery from stock. We claim to be in this position, and invite your urgent and general enquiries.



KALIL

KALIS.
LIMES.
MEDICALS.
EAU DE
COLOGNES.
OPAL
POMADES.



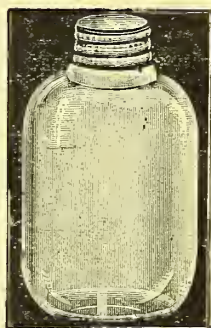
LIME.

SMELLING-
SALTS.
SYRINGES.
DROPPING
BOTTLES.
SURGICAL
GLASSES



MEDICAL.

CHEMICAL & LABORATORY GLASSWARE, TEST
TUBES, VIALS, BURETTES, SAMPLE TUBES, &c. &c.



TABLET BOTTLE.



TWO-ENDED FEEDER

*Wholesale Only.
No Retail Firms Supplied.*

Narrow-mouth SHOP
ROUND

JULES LANG & SON,
CHARLTON WORKS,
CHARLTON PLACE, ISLINGTON, N.1.

Telephones: North 2770-2 (3 lines).
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906).
Bentley's Complete Phrase Code.

PLEASE MENTION THIS PAPER WHEN ENQUIRING.

Maw's



Page

Sept. 10, 1921

No. 517

Maw's Surgical Dressings are quick sellers

*Further evidence from a chemist who has
handled Maw's Dressings.*

August 10, 1921.

"With reference to the parcel of Dressings I had from you some time ago, you may be interested to know that I am very pleased indeed with the contents. Previously, we packed our own Wools, Lints, etc., in not a very satisfactory manner, and it has indeed surprised me how quickly I have got through your parcel, so much so that I am now re-ordering."

Here is the result of the best of all tests—actual experience. Handling Maw's packed Dressings is easier than packing your own, and infinitely more satisfactory. Maw's Dressings reach you ready for immediate display. All you have to do is to show them. They do you credit, sell rapidly without effort, and bring certain repeat orders.

*May we send you particulars of our special
discounts on £5, £10 and £20 parcels?*

Telephones
City 7
Private
Branch
Exchange

Telegrams.
Eleven
Cent
London

S. Maw, Son & Sons Ltd.
Aldersgate St., London.
and Barnet.

Cables
Eleven
London

Code
A.B.C.
4th & 5th
Edition



Complete List of the "ELCO" Series



	size	P.A.T.A. wholesale	retail
Aspirin Tablets	25's	5/6	10½d.
Bay" Rum and Cantharidine	100's	15/9	2/6
Hair Wash	4 oz.	15/-	2/-
Beauty Cream	2½ oz.	15/6	2/-
Blood Purifier	6 oz.	15/-	2/6
Boroformic Soap	3 tabs in box, 10d. tab.	19/6	2/6
Borated Dusting Powder		8/6	1/3
Brilliantine (Solidified)		9/6	1/3
Carlsbad Powders, small	4 oz.	18/6	2/6
" " large	8 oz.	27/-	4/3
Chemical Food	4 oz.	12/-	1/6
	8 oz.	18/6	2/9
Chilblain Tablets	25's	6/-	1/-
Cold Cure Tablets	20's	6/-	1/-
Cough Syrup	2½ oz.	12/6	1/9
Dental Foam		10/-	1/3
Digestive Syrup	2½ oz.	14/3	2/-
Cod Liver Oil Emulsion			
with Hypophosphites	6 oz.	14/6	2/3
	12 oz.	23/-	4/-
Extract of Malt (uncartoned)	1 lb.	15/9	1/9
" "	2 lb.	28/-	3/2
" "	4 lb.	53/9	6/-
Extract of Malt and Cod			
Liver Oil (uncartoned)	1 lb.	16/6	1/10
	2 lb.	29/-	3/3
" "	4 lb.	56/-	6/6
Foot Tabs	23's	5/9	1/-
Glycerine and Cucumber			
Cream	2½ oz.	11/3	1/6
Hair Invigorator	6 oz.	20/-	3/-
Headache and Neuralgia			
Tablets	16's	9/-	1/6
Household Embrocation	4 oz.	11/9	1/6
Hypophosphites	8 oz.	29/-	4/-
Liver Tonic	5 oz.	18/-	2/6
Rubbing and Healing			
Ointment		7/6	1/-
Saline	6 oz.	16/-	2/-
Shampoo Powder	7's	14/-	1/9
" " loose		18/-	3d.
Syrup of Figs	2½ oz.	10/-	1/3
Tooth Powder		13/-	1/9
Vanishing Cream	2 oz.	11/6	1/6
Witch Hazel Foam	2½ oz.	11/6	1/6

Nett.

£5 ORDERS, ASSORTED,
less 5 per cent. discount,
complete with window display
material, showcards, show-
outers and handbills for
distribution.



*An "ELCO" order is your
most profitable investment!*

A visit to our showroom is sufficient
to prove to you the effect that a
display makes in your window or
on your counter—an effect of
quality and distinction which is
bound to re-act indirectly upon your
business in addition to bringing you
in 80% nett profit on your outlay
on the goods themselves

WE HAVE ABUNDANT ADVERTISING
MATTER.
MAY WE SEND YOU A TRIAL £5 ORDER?

EVANS SONS LESCHER & WEBB Ltd.
LIVERPOOL New York LONDON

NOW IS THE TIME

to think of your winter requirements. A perusal of our new list will show you we are well prepared to supply every speciality for the winter trade. Already our bookings for Cough Cure, Malt and Oil, Cod Liver Oil Emulsion, etc., etc., are growing rapidly. Can we quote you?

ROBERT BLACKIE,

Tel-phone:
HOP 2415.

WHOLESALE MANUFACTURING CHEMIST,
Shen Works, Tower Bridge Rd., London, S.E.1.

Telegram:
"Ushensp na
London."

P.A.T.A. NOTICE.

18 Tavistock Square, W.C.1.

September 9th 1921.

The following revised prices are
now in force:

"Torch Brand" Products—

Size		M.R.P.	M.W.P.
4 oz.	Cod Liver Oil...	1/-	6/9
8 oz.	" " ...	1/6	9/-
16 oz.	" " ...	2/6	15/6

Manufacturers of TOILET & PERFUMERY articles of a Proprietary character, sold largely in the Drug Trade, are cordially invited to place these preparations on the Protected List.

All enquiries on the subject to the Secretary will be promptly attended to.

AMERICAN ARMY SURPLUS.

AUTO STROP Razors

in Khaki Folder, with strop and 6 blades, 7/- each.

GILLETTE RAZORS

in flat nickel box, best silver-plated Razor with nicke mirror and 12 blades. Priced on box, 25/- 9/6 each.

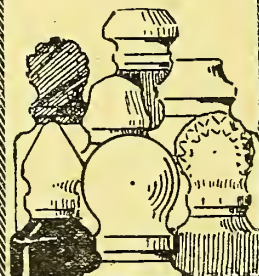
List of other Gillette Razors and Blades
at very SPECIAL PRICES on request.

H. A. CANNON (late of Red Lion House)
27 Cannon Street E.C. 4.

SELF-FIXING HERMETIC WASHABLE BOTTLE CAPS

ARE
ELEGANT—
EFFICIENT—
STRONGEST—
CHEAPEST—
and BEST.

The VISCOSE
Development Co., Ltd.
BROMLEY 3: KENT.



AYRTON'S WEEKLY

Your Recommendation Counts !

Notwithstanding the enormous amount of money expended on advertised cough remedies—how many times a day are **you**, Mr. Chemist, asked for “something for a cough”? Even when an advertised remedy is asked for there is usually the added question, “Do you know of anything better?” Your clientèle has faith in you, and would sooner buy a medicine on your recommendation than one backed by thousands of pounds of advertising. Own name goods keep the trade in your pharmacy—advertised goods are procurable anywhere.

The question of the moment is

COUGH MIXTURES.

Black Currant Cough Elixir (Children's).

Cherry Cough Mixture.

Cherry Cough Syrup (Children's).

Linseed, Horehound and Honey Cough Mixture.

Lung Tonic.

Wild Cherry Cough Linctus (Narcotic. Adults).



*Your Contract protects
you with a Falling
Clause.*

Have you placed your contract yet? If not, may we have the pleasure of hearing from you?—the season for cough remedies is close at hand—you can take delivery as required.

Write to-day for specimen cartons and labels, also prices of our wide range of cough remedies, suitable for children and adults—each one manufactured from a tested formula and exquisitely packed.

Your enquiry will receive prompt and courteous attention.

AYRTON, SAUNDERS & Co. L^{TD}

Manufacturing Chemists

Hanover Street, LIVERPOOL



USED FIRST, DEFIES DIRT.

The New Preparation which protects the hands from dirt is now being extensively advertised in the following papers :

"THE AUTOCAR." "THE MOTOR CYCLE."
 "THE MOTOR." "THE LIGHT CAR & CYCLE CAR."
 "THE MOTOR NEWS" (published in Ireland).

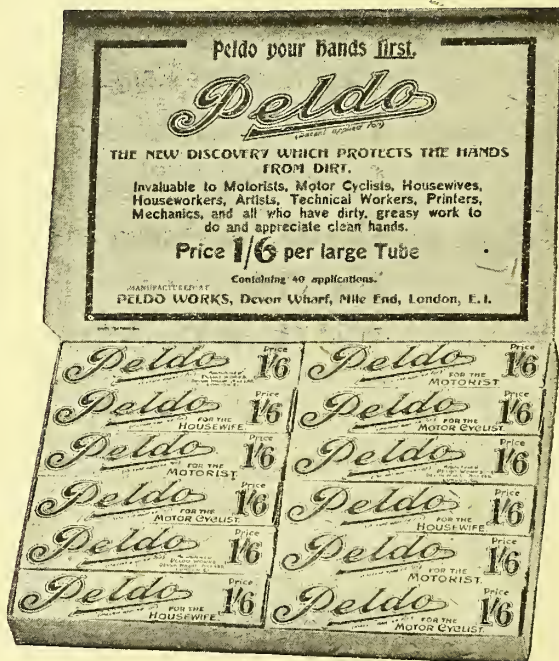
Are you in a POSITION to MEET THE DEMAND ?

RETAIL PRICE

1/6

EACH NET
(P.A.T.A.)

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.



WHOLESALE
PRICE

13/6

PER DOZEN

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows :

On Orders of 1 gross a bonus of 18 full-size tubes

On Orders of 6 dozen a bonus of 8 full-size tubes

On Orders of 3 dozen a bonus of 3 full-size tubes

Further particulars on application to

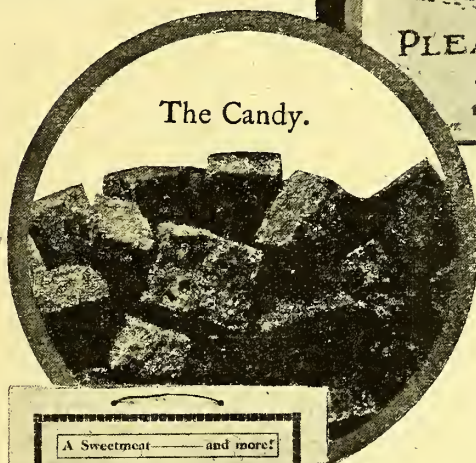
C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, EMMOTT STREET, MILE END, E. 1.



The Package.

Strong hinged-lid box wrapped in Seidlitz Blue Paper.



The Candy.



The Showcard.

An old-fashioned counter- adjunct with an up-to-date margin of profit.

A PACKAGE that revives memories of the Pharmacies of long ago, filled with irregular lumps of reddish-brown candy—so pleasant to the taste that one is apt to forget its remedial value and treat it as a sweetmeat pure and simple.

Old English Digestive Candy is, however, much more than that, for it combines the pleasantness of a sugar confection with the efficacy to be expected from a recipe containing Magnesia, Rhubarb, Bismuth, Soda and Ginger. Price 10/6 per dozen boxes (retailing at 1/6). Also sold in bulk, price 2/6 lb.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

FROZEN EAU DE COLOGNE

In Glass Jars with
SILVER-PLATED SCREW CAPS.

20/-
per dozen.



20/-
per dozen.

FROZEN WATER LAVENDER

CUSTOMERS' NAME FREE
ON
3 Dozen Orders.

Manufactured by—

Telephone:
HOP 4170
(2 lines)

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams:
"TOOGOOD,
BOROH,
LONDON."



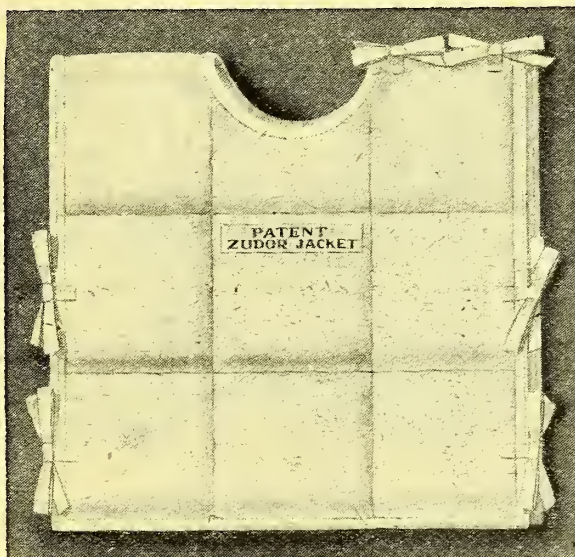
"ZUDOR" JACKETS

For Chest Colds, Bronchitis and Pneumonia, or as
a Chest Protector.

Prices :—					In six sizes. Any special size made to order.
No.	Across Chest.	Shoulder to waist.	Cotton Wool per doz.	Retail each.	
1.	8 in.	6 in.	7/-	1/-	
2.	10 in.	8 in.	10/6	1/6	
3.	12 in.	10 in.	14/-	2/-	
4.	15 in.	12 in.	18/-	2/6	
5.	19 in.	13 in.	24/-	3/3	
6.	21 in.	15 in.	30/-	4/6	

With orders for six dozen a bonus of three of size 3
is given, and with orders for one gross six of size 2
and six of size 3, together with appropriate show matter.

CUXSON, GERRARD & CO., LTD.
OLDBURY, near BIRMINGHAM.



ESSENFLOUR PRODUCTS LTD.

MYSORE (S. INDIA)

*Distillers of Essential Oils and Manufacturers
of Perfumery Products*

AMBRETTE SEED OIL
CARDAMOM OIL
CALAMUS ROOT OIL
CORIANDER OIL
CINNAMON BARK OIL
CINNAMON LEAF OIL (a Speciality)
CLOVE OIL B.P.

DILL OIL (East Indian)
EUGENOL
GINGER OIL
NUTMEG OIL
PATCHOULY OIL
VETIVERT OIL (S. India)

Sole Agent for Europe—

K. B. MAVLANKAR

26/27 Hatton Garden, LONDON, E.C.1

and 29 Corporation Street, MANCHESTER.

“IRISH ELEGANCE”

[Regd.]

The Winning Perfume—Fragrance of Midsummer Roses.

In three sizes	Wholesale	Retail
Small ...	28/- doz. ...	3/6
Medium ...	48/- ” ...	6/-
Large ...	168/- ” ...	21/-

Usual Trade Terms.

PRODUCT OF

The EVAN-WILLIAMS Co., Ltd.

18-18a Ogle Street, London, W. 1.

SHOWCARDS SUPPLIED.

The Chemist's Compact Library

MONEY-MAKING AND MONEY-SAVING BOOKS.

EVERY BOOK BY AN EXPERT.

May be obtained at the published prices from any
Wholesale Drug or Sundries House, or from

“THE CHEMIST AND DRUGGIST,” 42 Cannon St., London, E.C.4.

Branch Offices 1—MELBOURNE and SYDNEY, AUSTRALIA.

Essential Oil of Lavender

A LAVENDER FAIR will be held at Digne (Basses-Alpes), France, on October 1st, 1921, where the finest samples of Essential Oil of Lavender will be exhibited.

For all information address: The Commissioner of the Lavender Fair, rue Colonel Payan, Digne.

CROMESSOL

The Disinfecting Spray.

"Cromessol" is a unique combination of formaldehyde and the essential oils of sweet-scented flowers. It is a powerful germicide and fly exterminator, and the trade are advised to write for samples and special selling terms.

Co-efficiency $6\frac{1}{2}$ times carbolic acid. Instantly soluble in water. Dilutes 1 in 40 for spraying. Contains no spirit. Retail prices 2/6 and 4/6, less $33\frac{1}{3}\%$ Bonus with first order.

Read what the CHEMIST & DRUGGIST thinks of "Cromessol," in the issue of June 25.

For further particulars apply:

CROMESSOL CO.

323 PAISLEY ROAD WEST, GLASGOW.



Import,
Home
Trade,
Export
Merchants

GRAVEN HOUSE, KINGSWAY, LONDON, W.C.2

ESSENTIAL OILS. ESSENCES.

Proprietary Goods. Perfumery. Fine & Heavy Chemicals, etc.
Representation and Buying undertaken for Home,
Foreign and Colonial Houses.

Telegrams and Cables: "Philkiway, Westcent, London."
Telephone: Gerrard 1774. Code: A B C, 5th Edition.

Indents Executed.

Enquiries Solicited.

Shipkoff's Pure Otto of Rose

The TEST of Cheapness is QUALITY—not PRICE

SHIPKOFF'S OTTO OF ROSE is the Cheapest, because it is the Best Otto in the market. It is the Standard Brand—always pure, uniform and one quality only. Before placing your contract, be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 and 4-oz. sizes.

ONCE TRIED—ALWAYS USED.

Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofar, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

PYRAMID PRICES GO DOWN!

"Pyramid" value keeps up. Not goes up. It couldn't. When you buy Pyramid Corks, you get all you can for your money. What you pay over is unnecessary.

**PYRAMID
CORKS**

have character, too. All the "springiness" of rubber without its cost. Pay the price, and you won't get a rubbishy cork in a gross. Pay any price, and you won't get better for less. Say what you want—to-day.

N. W. Mitchell & Sons, Ltd.

"The Cork Firm."

Limehouse, London, E. 14.



An established favourite and ready seller.



"DUCHESS"

(REGD.)

ASSORTED

TOILET SOAP

4 $\frac{1}{2}$ d. Tablets.

PRICE PROTECTED.

NO CUTTING.

SALE RESERVED
exclusively to Chemists.

Send for Price List to "ERASMIC," Perfumers, WARRINGTON.

60,000

GLASS & STONE BOTTLES,
OINTMENT JARS, Etc.

EX W.O.

including a large percentage Brand New in
unopened cases, are offered in one lot at an
exceptionally low figure.

Full Particulars from

H. DA COSTA, BOSS & CO.

Export and Import Merchants,

33 Glasshouse Street, Piccadilly, London, W. 1.

PUFFS of ALL KINDS in DOWN and WOOL.

SOLID FACE POWDERS

COMPLETE WITH PUFFS.

Inquiries invited by makers,

F. SCHUTZE & CO., Ltd.

BLACK BULL WORKS,

Caledonian Market, London, N. 7.



CHICAGO HAIR DYE

Do you know where to obtain?

MADE IN FIVE SHADES.

Sole
Proprietors: **SINGLE, DALBY & CO.,**
42 Oldham Rd., Manchester.

Telephone . . . 574 Central.

Orisal

Regd.

The Original & Successful Remedy for PYORRHOEA
Prescribed by the Dental Profession.

PRICES.

	Wholesale (including Government Duty)	Retail	
Dental Paste	22/- per doz.	6d.	2/6 per tube
Mouth Wash	44/- & 27/-	1/-	5/- & 3/- per bottle
Special Brush	24/- per doz.	2/6	each
Dental Teeth Powder (Large Size)	18/-	2/-	"

Of Wholesalers, or direct from

ORISAL Ltd., 77 George St., Portman Sq., W.1.

Telephone No.: Mayfair 2899.



SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised
and stocked by all Wholesale Houses.
Trial Size 6d., per post 1d. 1/4 size, per post
1/8; 2/6 size, per post 2/11; 3/9 size, per post 4/6;
6d. size, 6/- doz.; 1/4 size 12/- doz.; 2/6 size
24/- doz.; 3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

The Evan Williams

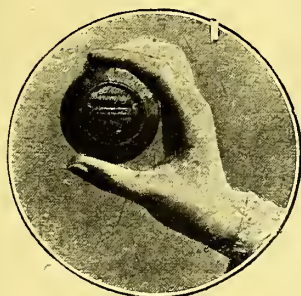
Always in Great Demand.

Price List on Application.

The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

ORIGINAL HENNA SHAMPOO.

Lines to stock for the INDOOR SEASON!



P.A.T.A. 4/6

Retail

36/- dozen.

In display boxes of
½-dozen.

BEAVER PUFFS

*The dainty leather and fur
puffs that become more
popular every day.*

Paul Poirer's **ROSINE PERFUMES**

*A luxury line showing LUXURY
PROFITS!*

IF YOU DO A GOOD-CLASS
BUSINESS, WRITE FOR TARIFF
Ⓢ COLOURED ILLUSTRATIONS.

POUDRE DE LUZY

*A good quality, well packed line of
French Face Powder that commands new
and repetition business.*

10½d. : 1/9 : 3/6 Retail (P.A.T.A.)

Discount **33⅓%**. Showcards and free Samples supplied.



CRÈME DE LUZY. PERFUMES DE LUZY

Equally good and saleable.

WRITE FOR SAMPLE AND TARIFF.

W. H. CALNAN & CO., LTD. 30-32 LUDGATE HILL
LONDON :: E.C. 4

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - .	10/-	1/-
A complexion soap.		
PROLACTUM - .	10/-	1/-
For the lips.		
PARSIDIUM JELLY - .	10/-	1/-
For wrinkles.		
ALLACITE of ORANGE - .	22/6	2/6
A dressing cream. BLOSSOM		
BORANIUM - .	22/6	2/6
A hair tonic.		
SILMERINE - .	22/6	2/6
Hair curling fluid.		
CLEMINITE - .	22/6	2/6
For a face lotion.		
COLLIANDUM - .	22/6	2/6
For a face tint.		
PERGOL - .	22/6	2/6
A deodorant.		
STALLAX - .	22/6	2/6
For a shampoo.		
JETTALINE - .	31/6	3/6
For clearing the skin.		
PHEMINOL - .	36/-	4/-
A depilatory.		
TEKKO PASTE - .	22/6	2/6
Camphor cream.		
MENNALINE - .	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX - .	31/6	3/6
A face cream.		
STYMOL - .	36/-	4/-
For oily complexions and blackheads.		
BARSYDE - .	22/6	2/6
Dandruff eradicator.		
TAMMALITE - .	22/6	2/6
For grey or faded hair.		
LIQUID PERGOL - .	31/6	3/6
To check excessive perspiration locally		
BICROLIUM - .	22/6	2/6
For whitening the hands.		
COCONOIDS - .	31/6	3/6
For figure development.		
HARAPOSA - .	22/6	2/6
Nut oil shampoo.		

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PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
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PER DOZEN.

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Hovenden's Toilet Preparations.

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WHITE.
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CHAMOMILE & ROSEMARY, PINE.
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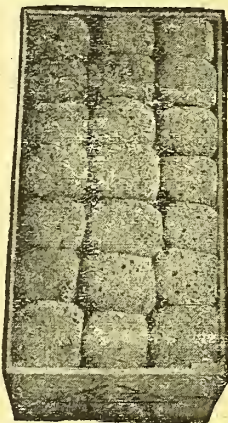
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Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers, [BRANCH,
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Extra Choice.
The Pick of all
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FINEST TEXTURE
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Pieces in Case.	Average Price per Piece.	
800 Toilet	at 9d.	
250 "	1/-	
200 "	1/6	
160 "	2/-	
140 "	2/6	
120 "	3/-	
100 "	3/6	
90 Medium Bath	4/6	
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Good 2nd
Quality.

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90 "	3/6	
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SOLIDS.

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SHAPES.

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" 36	4/-	
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PRICES—Cut Shapes ... 3s., 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s. per dozen.
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Strongly recommended where an inexpensive Toilet & Bath Sponge is required.

The Best and most Saleable Rubber Sponge on the Market.

ABLUTONIC RUBBER SPONGE

The nearest approach to the true Fine Turkey Sponge yet produced.

A VERITABLE TRIUMPH OF BRITISH MANUFACTURE.

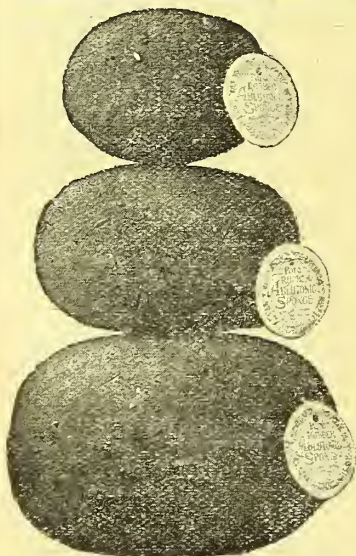
Very Soft, Durable and Absorbent.

Supplied in OVAL and ROUND SHAPES.

Nos. 01 1 2 3 4 5 6
Prices:—OVAL SHAPES 8/- 10/6 15/- 22/- 30/- 39/- 50/- doz.

Nos. 1 R 2 R 3 R 4 R 5 R 6 R
" ROUND SHAPES 13/6 18/6 27/- 39/- 50/- 60/- doz.

Send for Samples.



LOOFAHS (Vegetable Sponge). In original compressed bales, as imported from Japan.

Size 8" by 10" about 5,000 pieces in Bale | Size 1" by 16" about 2,500 pieces in Bale
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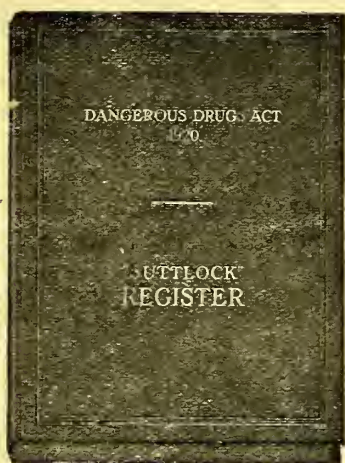
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REGISTER

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and all who are requiring this complete and efficient Register should

ORDER NOW



The Register contains 136 pages, with space for 872 entries of purchases and sales of the Dangerous Drugs. It is detailed and indexed into the required sections, suitably proportioned to meet all the requirements of both Wholesale and Retail Chemists. Its use ensures complete compliance with the Dangerous Drugs Act. Complete in one volume, strongly bound in Green Rexine, and blocked in Pure Gold.

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FOR SIX MONTHS**

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If you send an order for 12 doz. "Moovit" Corn Pencils we will insert an advert., giving your name and address, in your local paper for 26 weeks and make you Selling Agent for "Moovit" in your area.

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LANSDOWNE RD., S. LAMBETH,
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People are looking for Sorbo Sponges

IN your district there must be many men and women who have said to themselves, "Next time I see a Sorbo Sponge I'll buy one." Put a Sorbo Showcard in your window and they will buy their Sorbo Sponges from you.

If you could see the books of other firms you would be astonished at the way in which retailers are making money from this quick-selling line.

Sorbo Sponges are packed in transparent hygienic bags to prevent contamination.

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No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-
Bath Sizes: No. 4R, 7/6; No. 5, 10/6

Get in a good stock of assorted sizes, and display them on your counter. **WRITE TO-DAY!**

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

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Telephone: City 9372. Telegrams: "Osorbeau, London."

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HAIR BRUSHES



ON SALE
or RETURN

Nice Assortment
Good Value
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Factories: **AXMINSTER, DEVON.**

Non-Inflammable. Superfine Cut.

FREE with 3 doz. Combs



WHOLESALE PRICES:
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Glass - Fronted Showcase
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5 % Discount. Cash with Order. Carriage Paid.
Monthly accounts opened if desired.

Every variety of Combs and Brushware in Stock.

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Mr. LOGGIN, Chemist, Stratford-on-Avon, writes, 24/8/21: "Please send Rodine as before. Rodine requires no pushing; customers know it and ask for it. This is the fourth order this year as against three in the whole of 1920." A customer in Much Cowarne, near Bromyard, writes, 22/8/21: "With one-third of a 7½d. tin I found 40 dead rats."

Join the great offensive against the offensive rat. To push "Rodine" is profitable. It yields nearly 100% protected profit. Extensively and attractively advertised.

Send your order now.

Harley, Manufacturing Chemist, Perth, Scotland.



Clean and Dry to Handle
Retaining its adhesive condition long after opening, having a perfect drip-catcher and efficiently carrying on its work of fly destruction, the Wasp Flyband has an enormous sale.

WASP FLYBAND
pays you because it gives rapid turn-over at a protected profit, is clean and dry to handle, and is the most effective fly-catcher sold. Write for prices. Manufacturers—
F. W. HAMPSHIRE & Co., Ltd., Riverside Works, Derby.

The original and oldest STICKY FLY CATCHER in the market. 36 years' reputation.

The 'Fly Cemetery,' in Sheets.
The 'Catch O' Paper ditto
The 'Cemetery' Fly Band, 3in. wide
The 'Swallow' Fly Band, 1½in. wide

Prices on application.

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Telegraphic Address—"Flies Reading."

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FIRST IN THE FIELD
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DRIVES AWAY ALL BIRDS!

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A London Firm with most up-to-date Machinery for producing Cardboard Rigid and Collapsible Boxes and Cartons of every description is open to negotiate with one or two large consumers. A saving of 20/30 per cent. can be shown on the present-day prices, or could mutually arrange terms that would be advantageous to both.

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"NuVita" begins a new era in Digestive Biscuits. Its composition is based on the latest discoveries of medical science. Its wonderful effects are bringing it daily into greater and greater demand. *Lancet* says:—"Useful in a number of conditions."

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The merits of "NuVita" are now being brought to the notice of the public by professional recommendation and by advertising. Be prepared!

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Toilet Lanoline

Exceptionally pure. Refreshingly fragrant. Smooth and creamy in consistency. Free from the woolly odour so characteristic of commercial brands.

Issued in collapsible tubes of two sizes

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Contains 10% Boric Acid in a readily-absorbable base. Uniform in consistence. Never becomes rancid. Antiseptic, emollient, sedative.

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A valuable combination of analgesic, local-anæsthetic and counter-irritant substances. Is readily absorbed through the skin and is recognised as the most effective of local applications in relieving rheumatic pain and reducing inflammation.

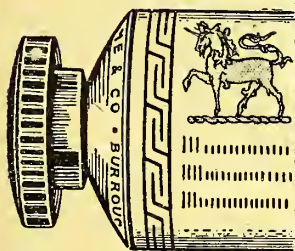
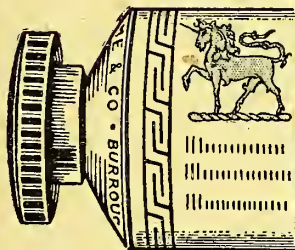
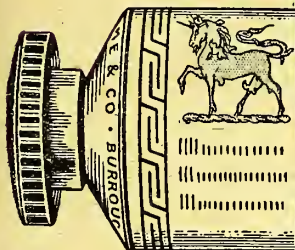
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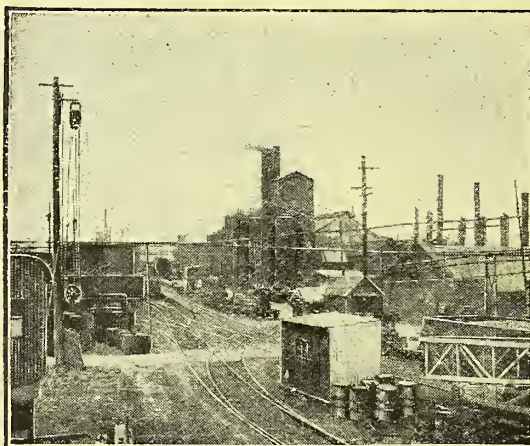
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A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES.

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Series 2172

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Dangerous Drugs Act Card

THE Dangerous Drugs Act card, which is on sale at the various offices of THE CHEMIST AND DRUGGIST, can be supplied by post at the following prices for cash with order:

	s.	d.
Per card, post free	1	0
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12	10	0
25	20	0
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The card, measuring 10 in. by 12½ in. and provided with a cord for hanging up, gives a concise summary of the Regulations under the Dangerous Drugs Act, which came into force on September 1, and in addition a table showing the percentage of cocaine, diamorphine, and morphine in various official and unofficial pharmaceutical preparations. A method is also given for finding out whether prescriptions containing "dangerous" drugs or their preparations require to be treated with the formalities laid down in the Regulations.

The card can also be obtained by callers at our provincial offices: 49 County Buildings, Old Millgate, Manchester, and 54 Foster's Buildings, High Street, Sheffield.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Public Institution News

Dispensers engaged at poor-law dispensaries, mental hospitals, and other institutions under the control of State and municipal bodies will, in common with other officials, receive a reduced amount by way of "war bonus" as from September 1. The revised scale remains in force for six months.

A collector for a certain hospital called recently at the residence of a traveller for a firm featuring catgut as a speciality. A request for a subscription to the hospital funds was met with a warm argument on the rights of a hospital to "trade" in such a commodity as catgut, and, needless to say, the expected guinea did not materialise.

A paragraph on p. 41 of the *C. & D.* of September 3 has interested dispensers engaged under public bodies. Several attempts have been made to induce the Local Government Board to grant dispensers first-class rank with definite tenure of office, but no success has, up to the present, been achieved. As the Pharmaceutical Society has given up "trade" matters, it is thought it ought to concentrate on such questions, which affect the status of all pharmacists in the eyes of Government officials.

Surgical-instrument and dressings houses complain of poor business, which is attributed to the huge sale of surplus war stores at Shepherd's Bush, London. Forceps (new), which cost 15s. to buy in the ordinary way, are going for 5s.; crutches, scissors, and splints are available at similar "bargain" prices; and many hospitals have been laying in a stock. Voluntary hospitals were given the first choice—apparently to help them in the present financial crisis. Municipal and other bodies have now taken advantage of their opportunity.

Those "Dangerous" Regulations are causing a "liveliness" in hospital circles: some M.O.'s ignore them, and others ask anxiously if a 5-minim dose of tinct. opii in 3j. of mixture has to be "signed for." When it is remembered that 7 lb. of tinct. opii may be bought and only 4 oz. of this quantity issued as "dangerous," the rest being for stock mixtures outside the Act, the application of such Regulations to hospitals appears farcical. Apparently, a ward sister has to keep no record of the disposal of supplies obtained by her, and it will provide a happy search for any official appointed by the Home Office when he attempts to dissect the bed-cards and to prove the proper use of the drugs. The question is asked, too, as to whether a 1908 Act, Section 4 (b), pharmacist is a fully qualified pharmacist entitled to order supplies for his hospital.

Philip's "Standard" Retail Price List

The following are among the alterations in price in Philip's "Standard" Retail Price List, published at 258 Pitsmoor Road, Sheffield:

Drugs.—Acid. gallic, 2½d. dr.; acid. tannic, 2½d. dr.; argenti protein, 8d. dr.; bism. carb., 1s. 4d. oz.; bism. subnit., 1s. 2d. oz.; butyl-chloral hyd., 6d. dr.; carui pulv., 2d. oz.; creta c. camph., 3d. oz.; cubeb. pulv., 1s. oz.; formaldehyd. liq., 2½d. oz.; glycerin. acid. tannic, 8d. oz.; glycerin. boracis, 4½d. oz.; glycerin. pepsin, 11d. oz.; glycerin. thymol. co., 2d. oz.; inf. buchu conc., 10d. oz.; jalap. pulv., 7d. oz.; lin. bellad. meth., 10d. oz.; lin. saponis meth., 3d. oz.; lin. terebinth., 3d. oz.; mel boracis, 2½d. oz.; ol. caryophylli, 1s. 5d. oz.; ol. lavand. gall., 5d. dr.; paraffin. liq., 2½d. oz.; potass. permang., 3½d. oz.; resorcin., 4d. dr.; saline, effervesc., 2½d. oz.; sennæ fruct. Alex., 6d. oz.; sodii citras, 5d. oz.; sodii salicyl., 6d. oz.; sp. camph., 8d. oz.; tereben., 5d. oz.; tinct. buchu, 1s. oz.; tragac. pulv., 1s. 8d. oz.; ung. gallæ c. opio, 6d. oz.; vin. ipecac., 5d. oz.

Goods Sold by Pint.—Lime water, 6d. pint; wood naphtha, 2s. 10d. pint; linseed oil, 1s. 3d. pint; cod-liver oil (cattle), 11d. pint; turpentine, 1s. 7d. pint.

Packed Goods.—Chemical food, 4-oz. 1s. 1d., 8-oz. 1s. 7½d., 16-oz. 2s. 11½d.; cod-liver oil, 4-oz. 10d., 8-oz. 1s. 2½d., 16-oz. 2s. 1d.; liquid paraffin, 4-oz. 1s. 1½d., 8-oz. 1s. 10d., 16-oz. 3s. 1½d.; malt extract, ½-lb. 1s. 1½d., 1-lb. 1s. 9½d., 2-lb. 3s. 2d.; malt and oil, ½-lb. 1s. 2d., 1-lb. 1s. 10d.

B B

Poisonings

The following cases of fatal poisoning have been recorded since our last report :

At Mawdesley, William Dalton, an infant, died from accidentally taking tablets containing strychnine.

At Wrexham, Louisa B. Crawford, married, committed suicide by taking salt of lemon while of unsound mind.

At Oxford, Harriet L. Hedges, the wife of a motor-mechanic, committed suicide by drinking a solution of ammonia while of unsound mind.

Unlicensed Vendor of Sheep-dip Fined

At Keswick, Cumberland, on August 27, the Farmers' Co-operative Society, 25 Station Street, were charged with keeping open shop for the sale of arsenical sheep-dip without being duly licensed. A police inspector stated that on visiting the shop he saw packets of Highland Sheep-dip and Highland Special Liquid Fly-dip exposed in the window for sale. He asked the manager if they were poisonous or non-poisonous, and received the reply that all dips were poisonous to a certain extent. Asked if he had a licence to sell poisonous dips, the manager replied in the negative, adding that he had only been manager two months, was ignorant of the law upon the matter, and had been asked by three farmers to get them supplies. George Stuart, the manager, pleaded "Guilty," and was fined 10s., with a caution to be more careful in future.

Birmingham

The pharmacy section of the Technical Institute is full, and will, it is expected, be so next year as well.

"No vacancies" is a frequent legend in the city's industrial areas, and this state of things is reflected in the slowness of trade.

The Birmingham town traveller of Parke, Davis & Co. has had an attack of ptomaine poisoning, happily only of a mild type.

The price of vacuum flasks seems to be growing—like the cow's tail—downwards. Such figures as 2s. 11d., 2s. 6d., and even 2s., are marked in various shop-windows on apparently serviceable flasks.

The mention of Leamington salts in last week's issue of the *C. & D.* (p. 62) suggests the comment that Warwickshire is amply supplied with medicinal springs—at Bishopston, Ilmington, King's Newnham, Southam, Waterfall, and Fenny Compton. This list does not profess to be exhaustive.

"A note in the *C. & D.* of August 27 (p. 42) on brewing classes at the University," writes a correspondent, "reminds me that a Black Country pharmacist had once upon a time so many difficulties of the small local brewers to solve that he determined to become a brewer himself: he established a name and amassed a fortune!"

Liverpool

The British Association is being invited to revisit Liverpool in 1923. It was here in 1834, 1854, 1870, and 1896.

The *C. & D.* enterprise, in offering free indemnity for chemists, has evoked high appreciation in Liverpool and the district.

A local pharmacist befriended ten years ago a British lady here on a visit from South America. Something has lately brought him to her mind, and she has sent his wife a beautiful piece of Indian work.

While extinguishing a fire during the week-end at premises in Spencer Street occupied by the Arthol Manufacturing Co., some of the firemen sustained slight burns and had their clothing splashed with perfume.

An argus-eyed critic, who has been on a tour of Liverpool and district pharmacies, has expressed admiration of a number of window-displays, but declares that, as a whole, much more modernisation is desirable.

On a recent visit to the Isle of Man, a senior assistant to a Liverpool firm of pharmacists was surprised to hear

a keen discussion concerning the expert evidence given in the Maybrick case—a generation ago.

The council of the Liverpool Chemists' Association met a few days ago and resolved to open the winter season in the first or second week in October with a whist-drive and dance. A sub-committee was chosen to draft the rest of the programme. Several matters of much interest to the trade in this district will be discussed.

Manchester

Mr. Walter Wilkinson, chemist and druggist, Prestwich, whose marriage is recorded on p. 41 of this issue, was on active service during the war as a second-lieutenant in the Lancashire Fusiliers.

Two competitions have been arranged for the present month by the Manchester and District Pharmaceutical Golfing Society. The "Woolley" trophy, presented by James Woolley, Sons & Co., Ltd., is to be played on the course of the Chorlton Golf Club on September 14. The trophy is held by the winner for one year, and carries with it a memento prize. On September 28 a competition will be held on the course of the Northenden Golf Club for a prize presented by Mr. W. Griffiths Hughes. Both competitions will be by medal play, and will start at two o'clock. Intending competitors are asked to forward their names to the secretary, Mr. J. A. Collins, 106 Church Lane, Harpurhey.

Sheffield

The city council is taking steps to organise a "health week" for Sheffield.

The headquarters of the Joint Hospitals Board is now situated in St. Peter's Close, in the premises lately occupied for Insurance purposes.

The local Press has gone one better than the Dangerous Drugs Act, and has placed paregoric under the Regulations! A contradiction has followed.

Municipal trading is still increasing, while 10,000 summonses are being issued in the district for the non-payment of rates. The authorities are supplying such articles as malt-and-oil at less than the traders' cost price. Of the summonses in question, 2,600 were returnable on September 7: only one defendant appeared.

Mr. J. T. Appleton, chairman of the Pharmaceutical Committee, has been reappointed vice-chairman of the Insurance medical benefit sub-committee.—Payments for dispensing for the month amount to 1,117l.—The sub-committee appointed to consider the proper completion of prescriptions by doctors is also to confer as to the advisability (and, if so, the method) of taking samples of Insurance medicine for analysis.

Miscellaneous

SCHOOL OF RADIOGRAPHY.—It is announced that a school of radiography is to be opened at King's College Hospital, London, S.E. 5, early in October. The school will be under the direction of Dr. Knox, and each course will occupy twelve months.

FIRE.—An outbreak of fire occurred in the early hours of September 3 on the premises of Solport Bros., Ltd., druggists' sundriesmen, 184 to 190 Goswell Road, London, E.C. 1. Thanks to the prompt arrival of the fire brigade, the damage was confined to the ground floor of No. 188, used for packing. The whole of the goods waiting for despatch were either destroyed or badly damaged. The cause of the outbreak is unknown.

RATING GRIEVANCE.—The Harrogate Pharmaceutical Association has joined with the local chamber of trade and other bodies in urging the overseers to postpone operation of the rates based on the increased assessment (except in regard to new properties) until other contributory authorities to the West Riding County Council fall into line. The corporation has been asked to take steps to prevent Harrogate being assessed on a basis higher than towns of corresponding size and character.

IN THE COURTS.—At Blackpool Police Court, on September 1, Ivan Rochelle was fined 1l. for causing an obstruction by selling embrocation from a stall erected on the

beach.—At Clerkenwell Police Court, London, on September 1, Frederic Horace Munn Foster, chemist and druggist, whose address was given as Rock Channell Cottage, Rye, was remanded on a charge of stealing from the Exmouth Street, E.C., branch of Boots, Ltd., his employers, the sum of 105l.—At Woolwich Police Court, on September 6, L. A. Chen, quartermaster, was fined 50l. for concealing 4½ lb. of opium on board a ship.—At Dudley Police Court, recently, Ernest Guy, insurance agent, and William Glazyard, miner, were committed for trial on charges of stealing, *inter alia*, a showcase containing seven sets of artificial teeth, two tooth-brushes, and three tubes of dental cream, value 10l., the property of Burchells (Chemists), Ltd., High Street, Netherton.—At Marlborough Street Police Court, on September 7, C. A. Langham, Kensington, W., who, his counsel said, held a high position with one of the leading chemists, was fined 2l., with 10s. 6d. costs, for being intoxicated while in charge of a motor-car and for dangerous driving, his licence to be cancelled.

Irish News

The Pharmaceutical Society of Ireland

The latest dates for lodging applications for the October examinations are as follows: Thursday, September 22, for the Preliminary examination; Tuesday, September 27, for the Registered Druggist examination; Wednesday, September 28, for the Pharmaceutical Licence examination; Saturday, October 1, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar not later than 11 A.M. on the respective dates. Intending new candidates for election to seats on the Council should note that nomination papers must be in the Registrar's hands by 12 o'clock (noon) on September 19.

Brevities

The Committee of Management of Down District Asylum, Downpatrick, invite tenders for the supply of medicines for that institution for six months from October 1, tenders to be lodged up to September 14 with the clerk.

A claim for 30l. compensation has been lodged with the Enniscorthy District Council on behalf of Mr. James Taylor, Ph.C., Market Square, Enniscorthy, for the loss and destruction of two casks of drugs and patent medicines on June 15.

The death is announced, in Limerick, of Mr. George Ebrill, B.A., A.I.C., lecturer in chemistry in the Cecilia Street Medical School, Dublin, and an examiner of the Pharmaceutical Society of Ireland. He was a recognised authority on poisons, and was associated with Professor E. J. MacWeeney in the investigation of the Mount St. Vincent Orphanage poison case in Limerick some years ago. He perfected a process for dealing with town sewage.

Belfast

At a meeting of the executive committee of the Belfast and District chamber of trade on September 5, Mr. J. C. Culbert, Ph.C., Connswater, was renominated for the honorary secretaryship for the ensuing twelve months.

During the riots on August 31, chemists in the lower part of Royal Avenue had exciting experiences. Mr. Henry F. Moore, Ph.C., proprietor of the pharmacy at 134 Royal Avenue, was shot in the face on the way to his shop, and severely wounded. He has since been in the Royal Victoria Hospital. On the same day a number of wounded were treated in the pharmacy of Mr. Thomas Finegan, Ph.C., 120 Royal Avenue. His plate-glass window was smashed, and some of the goods stolen. One of the assistants was assaulted by a mob, and it was only when an armoured car with police and military arrived that he could be taken to hospital. After Mr. Moore was shot he ran across to the pharmacy of Mr. Finegan, who played the part of a Good Samaritan, taking him in a cab to hospital, and remaining with him until he was put to bed. It was during Mr. Finegan's absence that his shop was attacked. Mr. Moore and Mr. Finegan are of

opposing views in politics and religion, but this incident shows the good feeling that prevails in the trade. Mr. Moore is progressing favourably.

Dublin

Mr. J. A. Walsh, Ph.C., 38 Dame Street, Dublin, and Prudential Chambers, 3 Wellington Place, Belfast, has been appointed to represent Mornay Frères, Ltd., 201 Regent Street and 6 New Burlington Street, London, W. 1, in Ireland.

Dr. Byrne, coroner for the City of Dublin, held an inquest on September 5 on Margaret Murphy, aged forty-two, who was found dead in Parnell Place on September 2. Evidence was given by a woman named Hannah Cahill that the deceased and herself drank methylated spirit purchased in a druggist's shop in Parnell Street. Dr. Oakley stated that in his opinion death was due to natural causes, and would be accelerated by the drinking of methylated spirit. The jury returned a verdict in accordance with the medical evidence. In reply to a juror, who asked if anything could be done to prevent the sale of methylated spirit, the coroner said the jury could add a rider to the effect that greater care should be used in the selling of it. The jury acted on the coroner's suggestion. Inspector Haugh, Dublin Metropolitan Police, said the matter was already being inquired into with a view to seeing that purchasers should state their reason for obtaining the spirit.

Scottish News

Brevities

An offer of a pre-war salary to an applicant for a post as junior in a pharmacy is reported.

At Montrose, on September 2, Catherine Young, or Johnston, died as the result of drinking lysol.

The annual report, just issued, of Dundee Technical College, shows that there were seventy-two pharmacy students during the past session, of whom forty-six qualified as chemists and druggists and eighteen passed Part I. of the examination.

At the forthcoming annual congress under the auspices of the Incorporated Sanitary Association of Scotland a discussion on the need for consolidating the law relating to the sale of food and drugs will be introduced by Dr. J. F. Tocher, public analyst for Aberdeenshire. Judge Young (Clydebank), Councillor Angus McDonald (Dunfermline), Bailie Peebles (Kirkcaldy), ex-Provost John H. Nicholson (Maxwelltown), and Bailie George G. Hill (Rothsay) are among the delegates well known in the drug-trade.

Edinburgh

The autumn holiday will be observed on September 19.

Not every pharmacist is very clear in regard to working out the percentage of morphine, for example, in a mixture containing tinct. opii. In all probability we shall have the respective strengths of several "dangerous" preparations at our fingers' ends in a week or two—possibly more accurately than ever before!

As is usual, the general public appeared to worry more about the "dangerous" drugs than medical men. Last-hour requests for spirit of salt, iodine, and salt of lemon were made in one district, while the practitioners merely carried on as formerly. The result will probably be that, rather than be troubled with calculations or returned prescriptions, prescribers will avoid certain drugs—as, in fact, they are reported to be doing further south.

Fife

Mr. Fraser, chemist and druggist, Lumphinnans, Fife, has disposed of his business.

Mr. Bell, chemist and druggist, is now in charge of the Central Pharmacy, High Street, Dunfermline.

Glasgow

Counterfeit florins are in circulation in Glasgow.

The "Glasgow Herald" of September 1 contains a review of a volume on the lead and other non-ferrous ores of Scotland.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

A. E. ASHBY, LTD. (P.C.).—Capital, 500*l*. Objects: To carry on the business of dispensing chemists and druggists, stationers, dealers in photographic supplies, extractors and adaptors of teeth, etc. The first directors are: A. E. and Alice Ashby, 105 Woodhouse Street, Leeds. R.O.: 105 Woodhouse Street, Leeds.

BURNS (WESTHOUGHTON), LTD. (P.C.).—Capital, 3,000*l*. Objects: To carry on the business of chemists, druggists, drysalers, manufacturers of and dealers in oils, paints, pigments, drugs, varnishes, enamels, colours, glues, dyes and dyeware, cements, tallow, greases and waxes, canister and tin-box makers, paper and paper bag and box makers, etc. R.O.: Railway Works, Slack Lane, Westhoughton.

COURTIN & WARNER, LTD. (P.C.).—Capital, 20,000*l*. Objects: To adopt an agreement with H. G. Warner and L. E. Courtin, and to carry on the business of manufacturing, analytical, consulting and general chemists, pharmacists, dealers in oils, chemicals, drugs, leaves, flowers, roots, raw materials for perfumes, synthetics and essences, etc. The permanent directors are: L. E. Courtin, Sillwood Lodge, Stonebridge Park, N.W.10; and H. G. Warner, 28 Holmefield Road, Wimbledon Common, S.W.19. R.O.: 8 Harp Lane, London, E.C.

SMITH, STANISTREET & Co., LTD.—The directors report for the year ended March 31, 1921, states that after providing for the usual depreciation and other charges, making provision for income tax and supertax, and after payment of the interim dividend on Preference shares on September 30, 1920, the profit and loss account shows a credit balance of rs.1,06,196-3-3, which includes the sum of rs.1,140-8-7 brought forward, and the directors recommend this should be dealt with as follows: To payment of dividend on preference shares for the six months ended March 31, 1921, rs.22,750; to payment of dividend of 7½ per cent. on ordinary shares, rs.75,000; to writing down goodwill, rs.7,500; to be carried forward to next year's account, rs.946-3-3; total, rs.1,06,196-3-3. The year commenced brightly for the company, but the first effects of the general depression throughout the world were felt during June, and from then onward to the close of February business was slack, improving during March; the improvement has since been maintained. Manufacture showed a slight increase for the greater portion of the year, but although the company had installed new plant to provide for expansion in this direction, they were unfortunately not able to obtain the increased supply of electric power. The year finished with a stock approximately 3 lakhs higher than that held at the end of March in 1920. The fall in sterling value of most drugs and chemicals is more than balanced by the fall in exchange, and rupee costs to-day, generally speaking, are slightly higher for imported goods than they were a year ago; the bulk of the stocks have been purchased at cheaper rates than those prevailing at present. The company is continuing the practice of writing down the goodwill yearly by a sum equivalent to 10 per cent. of the dividends proposed on the ordinary shares. Since the last report the shareholders authorised an increase of capital by the issue of 5,000 preference shares, which were underwritten entirely by shareholders, and it was arranged that these should only be issued from time to time as capital was required for gradual expansion. During the year only 1,500 of these were issued; the remainder will be issued periodically as the balance of the new capital is needed. Since April 1 there have been evident signs of an improvement in business. Returns for the first quarter of the current year have exceeded those of the corresponding quarters of the past two years by over 15 per cent.; surplus stocks are rapidly being liquidated, and it is felt that the turning-point has now been reached and that the prospects for the present year are considerably better than they were at this time last year.

Bankruptcy Reports

Re Hill Bros. (London) Ltd., 5 Fenchurch Street, London, E.C., chemical merchants and exporters.—The following are among the creditors in this liquidation, viz.: Williams, Stoker & Robinson, 52*l*.; May & Baker, Ltd., 1,250*l*.; Howard Lloyd & Co., Ltd. (Leicester), 51*l*.; International Trade Developer, 108*l*.; Paul Marcel & Co., Epernay, 250 fr.; Charles Page & Co., Ltd., 37*l*.; Ernest George Hill, 350*l*. (fully secured, 38*l*.); and C. H. Bryant, Ltd., 500*l*.

Re Arthur Fulford, trading as A. Fulford & Co., 71 Bowdon Street, Sheffield, wholesale druggist.—The first meeting of creditors was held on September 2, at the Official Receiver's offices, Figtree Lane, Sheffield. The creditors decided to appoint Mr. Charles Turner as trustee of the estate. The following are among the creditors: Adams & Beeman (London), 57*l*.; Black & Co. (Bolton), 23*l*.; Birmingham Food Supply Co., 25*l*.; Cussons, Sons & Co., Ltd. (Manchester), 26*l*.; Crampton & Co. (Manchester), 11*l*.; Capsol Dye Co., Ltd. (Blackpool), 15*l*.; Chiswick Polish Co. (London), 21*l*.; Ellis, Ltd. (Leeds), 24*l*.; Fairy Dyes, Ltd. (Glasgow), 22*l*.; Hallamshire Vinegar Co. (Sheffield), 23*l*.; Hargreaves Bros. & Co. (Hull), 14*l*.; Hoyland & Son, Ltd. (Sheffield), 23*l*.; George Hardy & Co. (Hull), 14*l*.; Norvix, Ltd. (Huddersfield), 12*l*.; Rosling, Turner & Johnson (Sheffield), 60*l*.; Reckitt & Sons, Ltd. (Hull), 23*l*.; Waterhouse, S., Ltd. (Sheffield), 18*l*.

Re Nagels & Co., 51 Fenchurch Street, London, E.C., chemical merchants.—The first meeting of creditors in this case was held recently at the London Bankruptcy Court before Mr. F. T. Garton, Official Receiver. The receiving order was made on August 10 upon the petition of John Elton & Co., Ltd., creditors for 72*l*., and the only other proof tendered was by Williams, Gibson & Co. for 37*l*., but it was stated that there were several other creditors desiring to lodge claims and the meeting was adjourned for a fortnight. The chairman reported that an inspector had attended at 51 Fenchurch Street and was informed that the debtor left there in May last and was believed to be in Hamburg. A creditor stated that the debtor was a Dutchman named Nardick. The chairman added that the inspector had also visited premises in Chancery Lane in the possession of "London, Ltd., Nagels & Co., allied merchandise," and had been informed that the debtor was nominally the managing director of that concern, but there was no property there belonging to him except some books and papers, and he had never carried on business in Chancery Lane. The chairman promised to make further inquiries before the date of the adjourned meeting.

Re Calvert Dyes, Ltd., Mirfield, Yorks.—The compulsory winding-up order was made against this company last May upon the petition of a creditor, and accounts have been lodged showing total liabilities 17,337*l*. (unsecured, 4,440*l*.), assets valued at 15,234*l*., an estimated surplus of 311*l*. in assets after payment of the debts, but a deficiency of 19,688*l*. as regards contributories. Mr. H. E. Burgess, Senior Official Receiver, reports that the company was formed in October 1919 as a private company to acquire from Mr. Jackson Calvert certain secret processes for the manufacture of aniline dyes and other dyewares, and generally to carry on business as manufacturers of dyewares, chemicals, etc. The nominal capital of the company was 25,000*l*., of which 19,998*l*. was issued in shares to the vendor or his nominees in payment for the before-mentioned new and secret processes. In January 1920 debentures for 5,000*l*. were created to secure advances made for working capital and to acquire a tenancy of land at Mirfield from the West Riding Chemical Co., Ltd. The bondholders in March last obtained the appointment of a receiver, but the question of the validity of the bonds was a matter for the consideration of the liquidator. The failure of the company was attributed to insufficiency of capital and to inability to sell goods owing to importation of dyes from Germany. Mr. H. F. Hartman, City Chambers, Bradford, has been appointed by the Court to the post of liquidator.

Confectioners' Exhibition

THE Confectioners', Bakers', and Allied Traders' Twenty-fifth International Exhibition and Market was opened, on September 3, at the Royal Agricultural Hall, London, N. Every available space seems occupied, and the number of exhibits is this year easily a record one. The large number of manufacturers of confectionery exhibiting suggests that the demand for sweetmeats is steadily increasing. There are several firms whose names are household words in confectionery, and who are, one might say, conspicuously absent. To judge from the crowd of sightseers, however, and the cheerful hum of conversation, these gatherings are becoming increasingly popular with buyers and those whose interests are bound up in the business. Chemists have not, as yet, become wholeheartedly retailers of chocolate and sweetmeats generally, so we pass these dainties over and describe below (alphabetically) some of the exhibits that appeal to the pharmaceutical eye:

THE "BETTERWAY" SIGNS.—T. N. Evens & Co., Ltd., have a pleasing stand of these useful advertising mediums, which seem to be in a fair way to oust the black-and-white cardboard showcard from general use. The signboards should be particularly of service to the pharmacist, who can modify his message according to his fancy and, what is equally important, to the needs of his trade.

THE BRITISH DIAMALT Co., whose stand is one of the first in the Arcade entrance, are manufacturers of malt extract, plain and in various combinations.

THE BRITISH MALT PRODUCTS Co. confine their exhibit to the needs of the bakers, but they are also prepared to supply pharmacists with malt extract, plain and with cod-liver oil, in bulk or jars.

THE CELLOPHANE Co. issue a cellulose wrapping material, "cellophane," which combines utility and appearance in no uncertain manner. The substance has a "silky" appearance, and can be obtained in a wide variety of forms and colours. Being grease-proof and airtight, it is suitable for perfumery trade articles such as bath tablets, suggesting "quality," which is so important in selling toilet preparations.

GEORGE CHURCH & Co., LTD., who show all kinds of wax papers for wrapping purposes, make waterproof and pitched papers for the export packing of drugs, etc., to prevent deterioration due to atmospheric conditions.

THE DON CANISTER Co., LTD., who have made rapid progress since the business was founded in 1914, give a representative display of their canisters, and sheets of tinfoil in various stages of completion show the progress from tinfoil to finished product. The printing is well defined, the colour schemes available are distinctly varied, and tins of all shapes and sizes for health salt, infant food, etc., are obtainable from the company.

EDME, LTD., are showing malt extract especially for bakers, but they also issue products suitable for chemists.

Two huge carboys will attract the passing pharmacist to the standard of Mr. E. DUNCAN DORING, who has an assortment of glassware ranging from these down to sampling tubes. A special display of 4-lb. glass lozenge jars is made.

FLUGEL & Co., LTD., are showing a specimen of their soda fountains, with which many pharmacists are already acquainted. Demonstrations are given and the preparations may be sampled.

THE FORGROVE MACHINERY Co., LTD., are showing high-speed caramel-wrapping machines, but they also specialise in filling machines for pills, tablets, etc.

JOHN GOSHERON & Co. have an interesting display of sealing machines, gummed tapes, and paper specialities.

HORLICK'S MALTED MILK is exhibited in both powder and tablet form, which are well enough known as staple lines in the pharmacy.

THE LONDON ESSENCE Co., LTD., have their usual show of essential oils, fruit extracts, and flavouring essences.

THE MANCHESTER CHEMICAL Co., LTD., display flavouring essences, colourings, and malt extract.

JAMES PASCALL, LTD., have a huge assortment of their confections on view. Maltex toffee, variegated cachous and fruit drops, which are in evidence, are favourite lines for the pharmacy. A special advertising scheme—a considerable success from the "young visitors" point of view—is the distribution, by youthful ladies, quaintly gowned, of specimen tablets of Ambrosia Dried-milk Chocolate. The composition of this confection is explained in the title.

THE PEARLITE BOX Co. exhibit gives tangible proof of the suitability of their speciality "Pearlite," as a means of keeping all kinds of perishable goods in sound condition. Many trades are using the boxes, which are cheaper than tin, and absolutely air- and damp-proof. Seidlitz powders, capsules, and tablets are some of the lines for which they are already used. Practically any kind of design and style is obtainable.

POLAK & SCHWARZ, LTD., give prominence to their flavouring extracts, which are in large demand from the confectionery trade. Essential oils are also displayed in great variety, emphasis being laid on their "Royal Menta Oil," a peppermint with a fine, fragrant odour. Mr. K. B. Mavlankar, 26-27 Hatton Garden, E.C., is the selling agent for the United Kingdom.

THE NATIONAL CASH REGISTER Co., LTD., are showing their credit file, together with the latest models of cash-tills, in which each assistant has his own drawer. The mahogany finish gives the machine a particularly handsome appearance.

At the stall of VENESTA, LTD., one gets some idea of the many varieties of tin-foil. The company make the collapsible tubes for most of the principal tooth-paste manufacturers, and all kinds of printing and enamel work is done on the tubes. Sprinklers, and lip-salve and other containers, are included in an attractive display. Mention should, perhaps, be made of the tin-foil, in different sizes, for protecting pomades and other articles from the deleterious effects of the atmosphere.

VOL-PEEK, it is claimed, mends holes in any metal. The operator simply presses the "vol-peek" in the cavity, and a flame completes the process. Thos. Christy & Co. are the distributing agents.

WRIGLEYS, LTD., have a fine display of the various varieties of their chewing gum, the best known being, of course, Spearmint. Here, also, tasting samples are freely offered.

Among the other stands which are well worth a visit are: Joseph Baker, Sons & Perkins, Ltd. (machinery), Calder's Yeast Co., Ltd., Dudley & Co. (showcards and sundries), The Drayton Paper Works, Ltd., Four Oaks Spraying Machine Co., H. D. Hardie & Co., Ltd. (egg products, etc.), Hillabys, Ltd., Pontefract (liquorice confectionery), J. G. Jackson, Ltd. (machinery), Thomas Keane & Son, Ltd. (travellers' cases), Licenses and General Insurance Co., Ltd., Montgomerie & Co., Ltd. (Bermaline bread and malt extract), National Food Co. (Allinson's food products), Rose Bros., Gainsborough, Ltd. (wrapping machines), United Yeast Co.

New Books

Collected Papers from the Research Laboratory, Parke, Davis & Co., Detroit, Mich. Reprints—Vol. VII. 8½ in. × 5½ in. Pp. 489. [Under the direction of Dr. E. M. Houghton useful research work is still being conducted at the Detroit laboratories of Parke, Davis & Co. The present volume contains papers 145 to 193, which have been reprinted from various medical journals. The papers cover a wide range of subjects, among them being: Gastro-intestinal lavage in dogs for removing worms; the treatment of burns by paraffin; anthelmintic medication; oil of chenopodium; stability of cannabis sativa and its extracts; cultivation of medicinal plants; deterioration of digitalis extracts; detection of chloretone; control of lice on horses; Brazilian jalap; vaccine therapeutics; local anaesthetics; and pharmacopoeial botanical nomenclature. The whole forms an excellent record of research in the laboratory of a manufacturing chemist.]

Safeguarding of Industries Act

THE following is the text of the Safeguarding of Industries Act, which comes into operation on October 1. We published the Bill in our issue of June 11, and in order to show the additions and modifications which have been made in the Bill during its passage through Parliament, we print the changes in italics.

An Act to impose duties of customs on certain goods with a view to the safeguarding of certain special industries and the safeguarding of employment in industries in the United Kingdom against the effects of the depreciation of foreign currencies, and the disposal of imported goods at prices below the cost of production, and for purposes connected therewith.

PART I

SAFEGUARDING OF KEY INDUSTRIES

Charge of Customs Duties on Goods in Schedule.—

1.—(1) Subject to the provisions of this Act, there shall be charged, levied, and paid on the goods specified in the Schedule of this Act, on the importation thereof into the United Kingdom, duties of customs equal to one-third of the value of the goods.

(2) Where any other duties of customs, not being duties chargeable under Part II, of this Act, are chargeable in respect of any goods chargeable with duty under this section, duty under this section shall not be charged except in so far as the amount thereof exceeds the amount of those other duties.

(3) No duty shall be charged under this section on goods which are shown to the satisfaction of the Commissioners to have been consigned from and grown, produced or manufactured in the British Empire, and for the purposes of this subsection goods shall be deemed to have been manufactured in the British Empire which would be treated as having been so manufactured for the purposes of Section 8 of the Finance Act, 1919 (which relates to Imperial preference), and that section shall apply accordingly.

(4) Where an imported article is a compound article of which an article liable to duty under this section is an ingredient or forms part, no duty shall be charged under this section in respect of the compound article if the compound is of such a nature that the article liable to duty has lost its identity, and any dispute as to whether an article has lost its identity shall be determined in like manner as disputes as to whether goods are goods specified in the Schedule to this Act.

(5) For the purpose of preventing disputes arising as to whether any goods are or are not any goods chargeable with duty under this part of this Act, the Board may from time to time issue lists defining the articles which are to be taken as falling under any of the general descriptions set out in the said Schedule, and where any list is so issued defining the articles which are to be taken as falling under any such general description, the said Schedule shall have effect as if the articles comprised in the list were therein substituted for that general description.

Every list issued under this section shall be published forthwith in the London, Edinburgh, and Dublin Gazettes, and in such other manner as the Board think proper.

If within three months after the publication of any such list any person appearing to the Board to be interested delivers to the Board a written notice complaining that any article has been improperly included in, or excluded from, the list, the Board shall refer the complaint to the arbitration of a referee, to be appointed by the Lord Chancellor, who shall not be an official of any Government department, and the decision of the referee shall be final and conclusive, and the list shall be amended so far as is necessary in order to give effect to the decision, without prejudice, however, to the validity of anything previously done thereunder.

PART II

PREVENTION OF DUMPING

Power of Board of Trade to Apply Part II. to Certain Goods.—2.—(1) If, on complaint being made to the Board to that effect, it appears to the Board that goods of any class or description (other than articles of food or drink) manufactured in a country outside the United Kingdom are being sold or offered for sale in the United Kingdom—

(a) at prices below the cost of production thereof as hereinafter defined; or

(b) at prices which, by reason of depreciation in the value in relation to sterling of the currency of the country in which the goods are manufactured, *not being a country within His Majesty's Dominions*, are below the prices at which similar goods can be profitably manufactured in the United Kingdom;

and that by reason thereof employment in any industry in the United Kingdom is being or is likely to be seriously affected, the Board may refer the matter for inquiry to a committee constituted for the purposes of this part of this Act:

Provided that the Board shall not so refer any matter involving a question of depreciation of currency unless they are satisfied that the value of the currency of the country in question in relation to sterling is less by 33½ per cent., or upwards, than the par value of exchange.

(2) The Board, on referring any such matter to a committee, shall direct that the committee shall report also on the effect which the imposition of a duty under this part of this Act on goods of any particular class or description would exert on employment in any other industry being an industry using goods of that class or description as material.

(3) If the committee report that as respects goods of any class or description manufactured in any country the conditions specified in subsection (1) are fulfilled the Board may, after taking into consideration the report, if any, made under subsection (2) by order apply this part of this Act to goods of that class or description if manufactured in that country:

Provided that—

(a) no order shall be made under this section applying this part of this Act to goods of any class or description unless the committee to whom the matter has been referred under this section have reported that in their opinion production in the industry manufacturing similar goods in the United Kingdom is being carried on with reasonable efficiency and economy; and

(b) no such order shall be made which is at variance with any treaty, convention or engagement with any foreign State in force for the time being.

(4) If at the time when it is proposed to make any such orders the Commons House of Parliament is sitting or is separated by such an adjournment or prorogation as will expire within one month, the drafts of the proposed orders shall be laid before that House and the orders shall not be made unless and until a resolution is passed by that House approving of the drafts either without modification or subject to such modifications as may be specified in the resolution, and upon such approval being given the orders may be made in the form in which the drafts have been approved.

In any other case an order may be made forthwith, but all orders so made shall be laid before the Commons House of Parliament as soon as may be after its next meeting, and shall not continue in force for more than one month after such meeting unless a resolution is passed by that House declaring that the orders shall continue in force, either without modification or subject to such modifications as may be specified in the resolution; and, if any modifications are so made as respects any order, the order shall thenceforth have effect subject to such modification, but without prejudice to the validity of anything previously done thereunder.

Any order approved or continued under this subsection shall have effect as if enacted in this Act.

Charge of Customs Duties on Goods to which Part II. Applies.—3. (1) Subject to the provisions of this part of this Act, there shall be charged, levied, and paid on goods of any class or description in respect of which an order has been made under this part of this Act, if manufactured in any of the countries specified in the order, on the importation thereof into the United Kingdom, in addition to any other duties of customs chargeable thereon, duties of customs equal to one-third of the value of the goods.

(2) Where goods are manufactured partly in one country and partly in another, or undergo different processes in different countries, and any one or more of those countries are countries in relation to which an order applying to the goods in question has been made under this part of this Act, the goods shall be liable to duty under this part of this Act unless it is proved to the satisfaction of the Commissioners that twenty five per cent. or more of the value of the goods at the time of export to the United Kingdom is attributable to processes of manufacture undergone since the goods last left any country in relation to which such an order has been made.

(3) An order under this part of this Act may extend to goods brought back into the United Kingdom after having been exported therefrom for the purpose of undergoing any process out of the United Kingdom, and in such case the goods shall be deemed for the purposes of this part of this Act to have been manufactured in the country in which they have undergone such process, but the importer shall, on proof to the satisfaction of the Commissioners of the value of the goods at the time of such exportation, and of the identity thereof, and that no drawback has been allowed

thereon on the exportation thereof, be entitled to be repaid by the Commissioners such proportion of the duty paid under this part of this Act on the goods so brought back after having undergone such process as aforesaid as represents *one third of the value of the goods* before exportation and of freight and insurance outwards.

Remission and Repayment of Duty in Certain Cases.—4. Where an order has been made under this Part of this Act applying this Part of this Act to goods of any class or description on the ground that goods of that class or description are being sold or offered for sale in the United Kingdom at prices below the cost of production thereof, the following provisions shall have effect:

(1) If any person by whom any duty would be payable proves to the satisfaction of the Commissioners that the goods in respect of which the duty is payable, have already been sold in the United Kingdom at a price which was not less than the cost of production the payment of duty shall be remitted.

(2) If any person by whom any duty has been paid proves to the satisfaction of the Commissioners that the goods were on the first sale thereof within the United Kingdom sold at a price which was not less than the cost of production of the goods, or *where he shows* that there has been a change in the market conditions of the country of manufacture, not less than the amount which would on the date of sale have been the cost of production in that country of similar goods, he shall be entitled to repayment of the duty so paid.

(3) No such remission or repayment of duty shall be made, unless and until there is produced to the Commissioners a declaration in the prescribed form made by the consignor of the goods stating the cost of production, at the date of the declaration, of the goods, and the country of manufacture of the goods, certified by a British consular officer, or by some other person duly authorised by the Board to give certificates for the purposes of this Part of this Act, to be to the best of his knowledge and belief a true declaration.

For the purpose of any claim to remission or repayment of duty under this section the declaration by the consignor, duly certified by a British consular officer or other person as aforesaid, shall, *unless proved to have been obtained by fraud*, be conclusive evidence of the amount of the cost of production of the goods to which the declaration relates.

A certificate under this section shall be in such form and be subject to such conditions as to period of validity and otherwise as the Board may direct.

(4) Where goods which have been charged with duty are, without being sold, used in the United Kingdom for any purpose, they shall, for the purposes of this section, be deemed on being so used to have been sold, and in such a case the sale price shall, for the purposes aforesaid, be taken to be an amount representing the price at which the goods were actually purchased from the exporter, together with freight and insurance and the amount of any import duty, other than the duty under this Part of this Act, which may have been paid in respect of the goods.

Power to Require Proof of Origin of Goods.—5. It shall be lawful for the Commissioners, in the case of any goods which if manufactured in a particular country would be liable to duty under this Part of this Act, to require the importer to furnish to the Commissioners proof in the prescribed form with respect to the country of manufacture of the goods, and if such proof is not furnished to the satisfaction of the Commissioners the goods shall be deemed to be goods manufactured in the first-mentioned country:

Provided that the Commissioners shall require such proof in the case only of goods consigned from such countries as the Board may direct.

Exceptions.—6. Subject to such conditions as the Commissioners may direct for securing that the provisions of this Part of this Act shall not be evaded, this Part of this Act shall not apply to any goods which had left the place from which they were consigned to the United Kingdom not later than *fourteen* days after the date of the order applying this Part of this Act to goods of the class or description in question.

Constitution of Committees.—7. (1) A committee for the purposes of this Part of this Act shall consist of *five* persons selected by the President of the Board from a permanent panel of persons appointed by him who shall be mainly persons of commercial or industrial experience.

(2) Any person whose interests may be materially affected by any action which may be taken on the report of a committee shall not be eligible for selection as a member of the committee.

(3) A committee to whom any matter is referred under this part of this Act shall *forthwith in accordance with such rules of procedure as may be prescribed* inquire into the matter so referred and report thereon to the President of the Board:

Provided that the sittings of the committee at which evidence is taken shall be held in public, except that the committee shall refuse to allow the public to be present at any proceedings of the committee during the hearing of evidence on matters which, in their opinion, are of a confidential character.

Meaning of "Cost of Production."—8. In this part of this Act the expression "cost of production" in relation to goods of any class or description means the current sterling equivalent of 95 per cent. of—

(a) the wholesale price at the works charged for goods of the class or description for consumption in the country of manufacture, *subject to the deduction of the amount of any excise or other similar internal duty leviable in that country and included in the price*; or

(b) if no such goods are sold *wholesale* for consumption in the country of manufacture, the price at the works (*subject to the like deduction*) which would have been reasonable if the goods had been so sold, and in determining what price would have been reasonable regard shall be had to the wholesale prices charged for goods as near as may be similar.

Duration, etc., of Orders.—9. An order made under this part of this Act shall, unless previously revoked by the Board, continue in force for three years or such less period as may be specified in the order; but any such order may, subject to the provisions of this part of this Act, be renewed from time to time by an order made in like manner and subject to the like conditions as the original order:

Provided that the Board shall not have power to revoke any such order *either wholly or as respects any country or article to which the order relates* except after reference to and consideration of any report thereon by a committee constituted under this Part of this Act, and that an order made on the ground of depreciation of foreign currency shall not be made or continue in force after the expiration of three years from the passing of this Act.

PART III

GENERAL

Value of Goods for Purposes of Act.—10. (1) The value of any imported goods for the purpose of this Act shall be taken to be the price which an importer would give for the goods if the goods were delivered to him freight and insurance paid, in bond at the port of importation, and duty shall be paid on that value as fixed by the Commissioners.

(2) If in ascertaining the proper rate of duty chargeable on any goods under this Act any dispute arises as to the value of the goods, that question shall be referred to the *arbitration* of a referee, appointed by the Lord Chancellor, who shall not be an official of any Government department, and the decision of the referee with respect to the matter in dispute shall be final and conclusive.

Sections thirty and thirty-one of the Customs Consolidation Act, 1876, shall, as respects any such dispute as to value, have effect as if an application for a reference to a referee under this provision were substituted for the action or suit mentioned in those sections.

Determination of Disputes.—11. If any dispute arises as to whether any goods imported into the United Kingdom are goods specified in the Schedule to this Act or in any list made by the Board under Part I. of this Act, or are goods to which an order made under Part II. of this Act applies, the question shall be referred to the *arbitration* of a referee, to be appointed by the Lord Chancellor, who shall not be an official of any Government department, and the decision of the referee with respect to the matter in dispute shall be final and conclusive, and sections thirty and thirty-one of the Customs Consolidation Act, 1876, shall apply as if the dispute were a dispute as to the proper rate of duty payable, with the substitution of an application for a reference to a referee under this section for the action or suit mentioned in those sections.

Supplementary Provisions as to New Duties.—12.—(1) If it is proved to the satisfaction of the Commissioners that a duty of customs has been duly paid in respect of any goods under this Act, and the goods have not been used in the United Kingdom, a drawback equal to the amount of duty paid shall be allowed on those goods if exported as merchandise.

(2) Section 6 of the Customs and Inland Revenue Act, 1879, shall not apply to goods liable to duties of customs under this Act, and any such goods imported into the United Kingdom after exportation therefrom shall be exempt from duty if it is shown to the satisfaction of the Commissioners either that the goods had not been imported previously to exportation, or that no drawback of duty was allowed on exportation, or that any drawback so allowed has been repaid to the Exchequer:

Provided that goods which have been imported and exported by way of transit under bond shall not be deemed to have been imported or exported under this provision.

Exception for Transit Goods.—13. Subject to compliance with such conditions as to security for the re-exportation of the goods as the Commissioners may impose, this Act shall not apply to goods imported for exportation after transit through the United Kingdom or by way of transhipment.

Interpretation.—14.—(1) In this Act—

The expression "the Board" means the Board of Trade; and anything authorised under this Act to be done by the Board may be done by the President, or a Secretary or Assistant Secretary, of the Board, or by any person authorised in that behalf by the President of the Board:

The expression "the Commissioners" means the Commissioners of Customs and Excise:

The expression "prescribed" means prescribed by regulations made by the Board.

(2) This Act shall be construed together with the Customs Consolidation Act, 1876, and any enactments amending that Act, except that the Isle of Man shall not be deemed to be part of the United Kingdom.

Short Title.—15. This Act may be cited as the Safe-guarding of Industries Act, 1921.

Duration of Part I.—16. Part I. of this Act shall come into force on the first day of October, nineteen hundred and twenty-one, and shall continue in force until the expiration of five years from the passing of this Act and no longer.

SCHEDULE

GOODS CHARGEABLE WITH DUTY

Optical glass and optical elements, whether finished or not, microscopes, field and opera glasses, theodolites, sextants, spectroscopes and other optical instruments.

Beakers, flasks, burettes, measuring cylinders, thermometers, tubing, and other scientific glassware and lamp-blown ware, evaporating dishes, crucibles, combustion boats, and other laboratory porcelain.

Galvanometers, pyrometers, electroscopes, barometers, analytical and other precision balances, and other scientific instruments, gauges and measuring instruments of precision of the types used in engineering machine shops and viewing rooms, whether for use in such shops or rooms or not.

Wireless valves and similar rectifiers, and vacuum tubes.

Ignition magnetos and permanent magnets.

Arc-lamp carbons.

Hosiery latch needles.

Metallic tungsten, ferro-tungsten and manufactured products of metallic tungsten, and compounds (not including ores or minerals) of thorium, cerium, and the other rare earth metals.

All synthetic organic chemicals (other than synthetic organic dyestuffs, colours, and colouring matters imported for use as such, and organic intermediate products imported for their manufacture), analytical reagents, all other fine chemicals (*except sulphate of quinine of vegetable origin*) and chemicals manufactured by fermentation processes.

Business Changes

MR. HENRY CLARKSON, chemist and druggist, has taken over the business known as Clarkson's Drug Store, 113 Elland Road, Leeds, from Mr. J. B. Clarkson.

CAVENDISH CHEMICAL CORPORATION, manufacturing chemists and importers, have removed from Laurence Pountney Hill, London, E.C. 4, to Empire House, 175 Piccadilly, W. 1.

HANDELSVEREENIGING VAN DUDOK DE WIT & Co. EN MATTHES & BORMEESTER, of Amsterdam, intimate that they have given collective procuration to Mr. A. B. C. Dudok de Wit, who will be authorised to sign conjointly with Mr. F. J. A. van der Wouden, Mr. H. Gerth, or Mr. H. van Eeghen.

Will.

MR. JOHN FLETCHER SANDERS, chemist and druggist, Silver Street, Ilminster, who died on May 20, left estate of the gross value of 1,974l. 8s., with net personalty 1,227l. 6s. 6d. Probate of his will has been granted to his widow, Mrs. Rhoda Sanders, and to his sons, Mr. W. L. Sanders, chemist, 309 London Road, Lowestoft, and Mr. J. F. Sanders, chemist, The Square, Crewkerne.

Pharmacy in Ireland

Impressions of an Englishman during a recent Tour

PHARMACY in Ireland has not been free from disturbing elements arising out of the political situation, if one may judge from a recent trip to the Emerald Isle. Indeed, but for the "truce" in Irish affairs a visit to many parts of Ireland would have been almost impossible. Travellers have now been able to call on their Irish customers again freely, and one hears of some remarkably good business being secured. The establishments of most Irish chemists, generally speaking, are much larger and better fitted than those of their English *confrères*. The volume of business transacted appears to be greater than in England, and with numerous side-lines the average Irish pharmacist is able to make a good living. There are only about 1,100 names on the Register of Pharmaceutical Chemists in Ireland and 600 chemists and druggists and registered druggists. In Dublin, with a population of 400,000, there are fewer than 100 chemists in business. One of the most interesting visits I made was to the handsome old-fashioned pharmacy of Evans in Dawson Street, dating back over 100 years. Here no displays of any kind are made in the window, but a substantial business is done inside, as the *élite* of Dublin society send their prescriptions to be made up at this pharmacy. Hayes, Conyngham & Robinson, Ltd., have several modern drug-stores in this city, their business in the well-known Grafton Street having been founded sixty years ago.

In Belfast, another city of about 400,000 people, pharmaceutical business is operated on modern lines, and the chemists appear to favour attractive shop-fronts and elaborate window-displays. While in Grattan's, an old-established dispensing house, I counted seven assistants busy with dispensing alone and eight others attending to ordinary counter work. Davidson & Hardy of Belfast have one of the best shop-fronts and most tastefully arranged pharmacies I have ever seen. It is evident to the English observer that Irish chemists obtain much better prices than prevail in England, not only for dispensing but for such products as perfumes, soaps, hair-brushes, shaving-brushes, etc. One sees a much higher-class stock of goods in an Irish pharmacy than is usual in England. Recently, however, many English-made articles have been in disfavour in certain quarters owing to efforts made to establish Irish-made products, and the unfortunate chemist often has to choose between offending his customers by not supplying popular English goods or obeying a notice to substitute Irish-made goods. The staple industries of Belfast—shipbuilding, linen, and rope—being very quiet, while I was in that city I found the pharmacists remarking on poor trade; but from all indications they have not been affected by the general trade slump to the same extent as England, Scotland, and Wales.

Ireland, from a business point of view, is nearly always good territory, but recent events have interfered with dealings between Anglo-Irish ports and made travelling difficult. So far as trade and professional organisation is concerned Irish chemists are well taken care of, and they have every reason to be proud of the various societies watching their interests. From the broader standpoint Irish pharmacy is a long way in front of English in having many prominent and capable men, such as Sir Thomas Robinson, Dublin; Mr. W. J. Hardy, Belfast; and Sir Stanley Harrington, Cork, actively associated with the retail chemists' business. *Viator* (2/9).

Gazette

PARTNERSHIP DISSOLVED.

NEWTON, A., and MASON, F. E., Yeovil, Somerset, pharmacists and opticians, under the style of Newton & Co.

UTRECHT FAIR.—There are to be 1,078 exhibitors at the Utrecht Fair, of which 156 are German, 77 British, 53 Belgian, 31 French, and 15 American.

Marriages

MESSENGER—WILSON.—At Holy Trinity Church, Southport, on August 24, Alan Victor, elder son of Mr. A. H. Messenger, chemist and druggist, 107 Sussex Road, to Doris Annie, adopted daughter of Mrs. R. Wilson, Southport.

NEWBERRY—TUCKER.—At the Chapel of the Charterhouse, London, E.C. 1, on September 3, Francis Raikes Le Blanc Newbery, managing director of Francis Newbery & Sons, Ltd., 27-35 Charterhouse Square, E.C., and Cardiff, to Caroline Mary, youngest daughter of the late Rev. William Tucker, Hitchin (see next column).

WAINWRIGHT—GERRARD.—At St. Mary's Church, Barnes, on September 3, by the Rev. H. de Waal, Alfred, eldest son of the late Mr. Walter Wainwright and Mrs. Agnes Graham, Hindhead, to Maud Felice, youngest daughter of Mr. A. W. Gerrard, Ph.C., and Mrs. Gerrard, Moseley.

WILKINSON—INGHAM.—At Oxford Street Unitarian Church, Accrington, on September 1, by the Rev. H. V. Mills, Walter Wilkinson, chemist and druggist, Prestwich, son of Mr. T. Wilkinson, Higher Antley, to May, only daughter of Mr. E. Ingham, Lime Street.

WILLS—DENWOOD.—At St. Thomas's Church, Brampston, Chesterfield, on August 26, Christopher Watson, second son of Mr. R. W. Wills, Bowness-on-Solway, to Dorothy Mary Isabella, elder daughter of Mr. G. D. Denwood, chemist and druggist, "Runnymede," Ashgate Road, Chesterfield.

Deaths

DAVIES.—On August 28, Mr. David Arthur Davies, chemist and druggist (Thomas Davies & Son, chemists, High Street, Rhymney). Mr. Davies, who qualified in 1897, was the eldest son of Mr. Thomas Davies, chemist and druggist, and had been associated with his father in the business for several years.

EASTWOOD.—Recently, Mr. Edwin Eastwood, retired chemist and druggist, aged seventy-one. Mr. Eastwood, who was registered as having been in business before August 1, 1868, had shops in Astley Street, King Street, and Oxford Road, Dukinfield.

GOOD.—Recently, Mr. Thomas Henry Good, chemist and druggist, 341 Beverley Road, Hull. Mr. Good, who qualified in 1901, was a prominent member of the Wilberforce Lodge of Freemasons. The funeral, which took place on September 6, was largely attended by Masonic and other friends.

LAMONT.—At Catterthun Ranch, Lintlaw, Margo, Canada, on August 12, Mr. William Lamont, retired chemist and druggist. Mr. Lamont, who qualified in 1839, carried on business at Brechin till a few years ago. He went to Canada last year on a visit to his son-in-law and daughter, and had the intention of returning. A keen bowler, fisher, and amateur photographer, Mr. Lamont was well known and popular in Brechin.

PHYESEY.—At Leicester, on August 28, after one day's illness, Mr. Richard Pheysey, Ph.C., aged eighty-eight. Mr. Pheysey, who was born in Shropshire, passed the Major examination in 1866. He carried on business in Waterloo, Liverpool, till his retirement some twenty years ago, when he removed to Warrington. In the temperance movement of his earlier years Mr. Pheysey took an active part, and a letter has appeared in a Liverpool newspaper testifying to his high character and public services. The funeral took place at St. Luke's Church, Great Crosby, on August 31, among those present being two sons, the Rev. F. W. Pheysey and Mr. H. R. Pheysey.

WOODS.—At 10 St. Lawrence Road, Plymouth, on August 25, Mr. William Herbert Woods, Ph.C. (William Woods & Son, chemists, 50 Bedford Street), aged sixty-three. The firm was well known through its arecanut tooth-paste. A photograph of the pharmacy and a portrait of Mr. Woods appeared in THE CHEMIST AND DRUGGIST, II., 1899, pp. 193, 194.

Personalities

MR. C. T. SNOW, of the Dodge & Olcott Co., distillers and manufacturers, 87 Fulton Street, New York, sails to New York on September 10 by the s.s. *Baltic* for a holiday, after three years at the London office, 20 Mark Lane.

FRITZSCHE BROTHERS, INC., essential-oil makers, 82-84 Beekman Street, New York, celebrated on August 28 the fiftieth anniversary of the foundation of the business. To commemorate the occasion the President, Mr. Frederick E. Watermeyer, presented to each of the employees a life insurance policy based on length of service, beginning with \$500.00 to those who have recently entered the business, and advancing \$100.00 to \$200.00 annually up to \$5,000.00 to those who have attained the quarter-century mark. Of the latter, there are five who constitute a quarter-century club, and several who are soon eligible for membership. We have received a highly ornamental paper-weight, suitably inscribed, as a souvenir.

MR. PHILIP F. ROWSELL, J.P., member of the Council of the Pharmaceutical Society of Great Britain, was on September 5, at Exeter, presented by members of the Devon Insurance Committee with an illuminated address, setting forth in fitting terms the high regard in which he is held by them and the services he has rendered since the formation of the Committee as its chairman (1917-21), as chairman of the sanatorium and medical benefit committee (1912-20), and as President of the National Association of Insurance Committees (1920-21). Mr. and Mrs. Rowsell subsequently entertained the Committee to high tea at the Rougemont Hotel. Eulogistic Press references to Mr. Rowsell's achievements in these capacities have been made.

We had a pleasant chat the other day with Mr. H. G. Madoery, director of Chemical Works Madoery, Ltd., Basle, who was passing through London on his way home, after an extended business tour. The tour embraced China, Japan, Singapore, British India, Ceylon, and Java (where cinchona was the principal object of interest), San Francisco, Los Angeles, Mexico, and throughout the United States, visiting St. Louis, Chicago, Washington, and New York. From New York Mr. Madoery came to London, and left for Switzerland, via Holland, on September 1. In course of conversation, we gathered that business generally in the drug and chemical trades in the countries visited is passing through a phase similar to that which obtains here. The feeling, however, in the countries most recently visited is of a revival in the near future.

THE marriage, on September 3, of Mr. F. R. Le Blanc Newbery, managing director of Francis Newbery & Sons, Ltd., Charterhouse Square, London, E.C. 1, was an event of unusual interest. The use of the fine old chapel of the Charterhouse, in which the wedding took place, is rarely allowed by the authorities, and in any case only to those having claims amounting almost to a prescriptive right. Upon Mr. Newbery's long and close association with the City of London it is hardly necessary to dwell. He is the second son of the late Mr. Lionel Newbery, and the great-great-grandson of John Newbery, the philanthropic bookseller who purchased from Oliver Goldsmith the manuscript of "The Vicar of Wakefield," and was a friend of Samuel Johnson. Mr. Newbery derives the name of Raikes from his great-grandmother, who was the only sister of Robert Raikes, the founder of Sunday schools; and that of Le Blanc from his grandmother, sister of Sir Simon Le Blanc, who was a judge of the High Court in the latter half of the eighteenth century, and is still remembered for his ruling that it was libel for a member of Parliament to print and circulate derogatory statements concerning persons which were made in the House of Commons. Mr. Newbery was educated at Dulwich College, and joined the business in 1838. He is a Liveryman of the Goldsmiths' Company (with which his family has been associated for several generations), and a trustee of many City charities. The reception after the ceremony, at which a large and distinguished gathering assembled, was held in the historic grounds of the Registrar of Charterhouse, where the numerous and valuable wedding presents were on view.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see *The Chemist and Druggist Diary*, 1921, p.300.

(From *"The Trade-marks Journal," August 24, 1921.*)

- "AMMO-PHOS"; for a fertiliser (2). By American Cyanamid Co., 511 Fifth Avenue, New York, U.S.A. B 417,243.
- "METTOR"; for ointment (3). By Elizabeth A. Marsland, Moorfield House, Brinnington, Woodley, near Stockport. 414,648.
- "VICREME"; for all goods (3). By W. Stoddart, 7 Islington Green, London, N.1. 416,175. (Associated.)
- "NUPINES"; for chest and lung tablets (3). By W. B. Cartwright, Ltd., Larkfield, Rawdon, near Leeds. B 417,093.
- "JIMINO"; for all goods (11). By J. R. Cave, Ltd., 52 Nevill Street, Southport. 415,346.
- "KALENER"; for surgical adhesive tape (11). By Callender's Cable & Construction Co., Ltd., Hamilton House, Victoria Embankment, London, E.C. 4. 415,432. (Associated.)
- "MELANGO"; for flavourings (42). By W. J. Bush & Co., Ltd., 20 Ash Grove, Hackney, London, E. 8. 414,108. (Associated.)
- "HANCO" on half-circle device; for all goods (47). By Hannam & Co., Ltd., Main Street, Port Elizabeth, Cape Province. 413,923. (Associated.)
- "CAPILLEDA"; for hair preparations (43). By G. H. Lee & Co., Ltd., 20-48 Basnett Street, Liverpool. 415,914.
- "SALVODENT"; for brushes (50). By R. Wakely, 3A Lockner Road, Kingsland, London, N.1. 416,445.

(From *"The Trade-marks Journal," August 31, 1921.*)

- "KLEZOL"; for gas-purifying chemicals (1). By the Acetylene Corporation of Great Britain, Ltd., 24 Victoria Street, London, S.W. 1. 416,413.
- "W O G"; for chemicals for use with electric accumulators (1). By W. O. Garbutt, 30 Russell Street, Gloucester. 416,439.
- "DUPLI-TIZED"; for photographic films (1). By Kodak, Ltd., Kingsway, London, W.C. 2. 416,805.
- "VETROLENE"; for an anti-parasitic disinfectant for animals and birds (2). By G. Young (Chemists), Ltd., Sugar House Lane, Stratford, London, E. 15. 415,324.
- "RATMORT" with device of two rats ("Ratmort" disclaimed); for a vermin-destroyer (2). By J. W. Warder, 25 Copenhagen Place, Limehouse, London, E. 14. 416,239.
- "RASTERMA"; for vermin destroyers (2). By H. E. P. Hutchings, 43 St. Erkenwald Road, Barking, Essex. 416,268.
- "DYNAZONE"; for medicines (3). By C. Scott, 46 and 48 Carter Lane, London, E.C. 4. 406,813.
- "CAPSULES DE JAVANOL DEFOIN" on globe device ("Defoin" disclaimed); for capsules (3). By E. Defoin, 74 Rue de l'Ange, Namur, Belgium. 412,477.
- "AQUAZONE OXYGEN WATER"; for purified oxygen water (3). By Aquazone Laboratories, Inc., 812 West 16th Street, Los Angeles, California, U.S.A. 415,065.
- "ANTOXOTOL"; for medicinal chemicals (3). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 1. 415,488.
- "PHOSPIHEON"; for medicinal chemicals (3). By Taylor's Drug Co., Ltd., 347 Burley Hill, Leeds. 416,423.
- "NOVABROM"; for photographic paper and postcards (39). By Photo-Produits Gevaert, 23 Sapté Straat, Vieux-Dieux, Belgium. 416,635.
- "BLINKA"; for goods (47); "EMACULA" for goods (47) and for perfumery, etc. (48). By J. Linday & Sons, Ltd., Montpelier Road, Dunkirk, Nottingham. 416,754, 416,756/757. (Associated.)
- "REVE BLEU," "LA PAIX," and "BONSOIR LISON"; for perfumery, etc. (48). By Avenel & Co., 7 Rue d'Enghien, Paris. 411,373/391/412.
- "BACTOL" for all goods (48); "SEAL" over device of seal on legal seal ("Seal" and legal seal device disclaimed). By Jules Frères, Ltd., 154 Walworth Road, London, S.E. 17. 416,707 (Associated), 414,584.
- "FLEUTROL"; for perfumery, etc. (48). By T. Hedley & Co., Ltd., City Road, Newcastle-upon-Tyne. 416,773.
- "IRIDESSA"; for bath crystals (48); "GOLDEN IDOL" for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Hove, Sussex. 414,188/573.
- "ANGÉLUS"; for cosmetics, etc. (48). By Louis Philippe, Inc., 318 West 23rd Street, New York, U.S.A. 415,322.
- "PURETEST" on device of retort and tripod ("Puretest" disclaimed); for perfumery, etc. (48). By the United Drug Co., 114 Old Hall Street, Liverpool. 415,494.

Trade Notes

DOWELL'S HEALTH PIPES are offered by Harwood Bros., Richmond Street, Liverpool.

NEW CROP ENGLISH LAVENDER OIL is now ready; wholesale buyers can obtain samples and prices from Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C. 2.

BRUSHES AND COMBS.—Attention is called to a special offer of hair-brushes, nail-brushes, tooth-brushes, and combs made by May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, London, E.C. 1.

MOOVIT CORN PENCILS.—The manufacturers of Moovit, the Talbot Wilson Chemical Co., Lansdowne Road, South Lambeth, London, S.W. 8, make a special agency offer in an advertisement in this issue.

CROMESSOL, an aerial disinfectant which was referred to in detail in the *C. & D.*, June 25, is advertised in this number by the Cromessol Co., 323 Paisley Road West, Glasgow. A liberal bonus is offered on first orders.

ELCO OFFER.—Evans Sons Lescher & Webb, Ltd., give in their advertisement a complete list of the "Elco" series of packed goods. In addition to a 5 per cent. discount on 5/1. orders, window-display material, showcards, etc., are sent.

CORVUSINE.—Hawker & Botwood, Ltd., Grays, Essex, invite applications for trade terms and particulars of the wheat-growing competition which is being organised in connection with Corvusine wheat-dressing. There are prizes for sellers as well as for growers.

EBONITE.—Siemens Bros. & Co., Ltd., Woolwich, S.E. 18, have just issued a catalogue dealing with the various articles in ebonite which the company make. Ebonite is supplied in all the forms required in industry—sheet, rod, tube, etc., as well as moulded articles. Particulars are also given of Keramot, a high-class insulating material.

COMPRESSED TABLETS.—An excellent idea for showing the variety of packed compressed tablets which a chemist sells is shown in the advertisement in this issue of Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton. The card measures 22½ by 16½ in., and is lettered in red and black, the words "Compressed Tablets," for example, being in red. Gold lines are used as divisions and for underlining words. As will be seen, the bottles of tablets are fastened on the card, the inscriptions giving the sizes, name, uses, and price.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/79. "Rigo" teats.	O/59. Chilka, a preparation of ispaghula.
H/59. Hermetite capping syrup.	G/318. Acetuloid.
N/29. "Clear-skin" sponges.	

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

"Accoson" thermometers, S/59	Hauthaway's peerless gloss, B/19
Binn's metal combs, G/29	Kerol, B/69
Californian bees, B/59	"Koh-i-noor" tooth-brush, L/39
Elliman's embrocation, A/59	"Kreeloo" disinfectant, E/69
"Ferroleum," E/69	"Stiflex" tooth-brush, N/258
Filling machines, W/19	Talcum powder - tins with
Glass carboys, R/29	sprinkler tops, R/39
Glass food measures, L/59	Vacuum flasks, F/59

THE prospectus of the Bradford Technical College for the session 1921-22 has just been issued. The first term of the session commences on September 20. Students intending to enter their names should communicate with the Principal before that date. Science courses, pharmacy courses, and courses in technical subjects are provided, and the teaching staff comprises a large number of lecturers and demonstrators.

Observations and Reflections

By Xrayser II.

Your Indemnity Insurance Scheme

warmly welcomed by all your subscribers and meet with a large response from those who have not yet been subscribers. It is a very generous action on your part, and incidentally it justifies my note of last week on the subject of insurance against accident. Needless to say, I knew nothing of the scheme when writing, and was as unprepared as any of your readers for the announcement made in the same issue. The fact remains, however, that the note was appropriate to the occasion, and I should like to repeat the assertion that premiums charged for insurance against such risks are ordinarily much too high—in fact, out of all proportion to the liability incurred. That it is so your new departure proves, for it cannot be supposed that you would take such a step without a reasonable assurance that the result would be satisfactory to the *C. & D.* itself as well as to its subscribers. I have little doubt of this myself, basing my opinion upon the rarity of such accidents within my own experience and observation. Their possibility at any time is nevertheless a fact of which we have to take account and a source of continual anxiety.

The "Amended" Constitution

of the Leeds Chemists' Association puzzles me. I fail to see how a member can really be a member if he is not a full member: is the difference explicable by a reference to Philip sober and Philip drunk? A full member, we are told, must be a member both of the Pharmaceutical Society and of the Retail Pharmacists' Union, and so far the matter is fairly plain. But the members need only to be members of one of these; does it matter which? The accounts I have seen say of "either"; but if members of the Society who are not members of the Pharmacists' Union nevertheless belong to the Pharmacists' Union section, why, there confusion begins. Like Mr. Low's conception of the Coalition Government the Association is double-headed, but the heads in this case are not equal; for though the Pharmacists' Union section is "autonomous," full members of the Association (that is, as I understand it, those who do not belong to this section) may attend and vote at its meetings. If this is a conundrum, I give it up. If it is actual fact, I am likely to have some amusement in seeing this hybrid at work. But perhaps the Association's reporter has muddled his brief abstract of its constitution—and no wonder if he has!

"The London Chemists' Costing System"

(with which is incorporated the "London Chemists' Retail Price-list"), of which the first number has just reached me, is much more complete than the old list, and a great improvement upon it. The prices, so far as I have been able to check them, seem reasonable, though I doubt whether it will be possible to adhere to them in all cases. Allowance being made for the difficulties of a first issue there is little occasion for criticism, much for appreciation. The "Business Aids" on page xx will be very useful; the page immediately preceding it, which is devoted to the dispensing department, is more questionable. The system of charging adopted is the so-called "London Simplified System," which is not quite so simple as it purports to be. It is a combination of the commercial with the professional on the lines of the Drug Tariff system, from which it differs only in the higher prices charged for drugs, etc., and the higher fees for compounding. The "simplicity" of this may be gauged by the work of the pricing bureaux it has called into existence. In private dispensing every chemist will do his own pricing, and, further "simplified" as it will be by the absence of decimals, he will, nevertheless, find it take time. This list will help him, but he is not expected to deal with it too strictly, as a penny is, according to the models given, to be the minimum

charge for any quantity of any article. This raises the total charge on many prescriptions very considerably, and though we need not complain of that it is not exactly in accordance with a "costing" system. The fact is that the meticulous pricing of every item in a prescription is an absurdity, and I venture to predict that in spite of the aids and directions given in the list the old style of averaging and guesswork will to some extent survive. I am sorry to have to add that the directions referred to are not clearly worded.

The "Legal Queries"

which were formerly a sort of side-line with you, though an important one, have of late become quite a leading feature, and with the steady increase of legislation affecting us promise to encroach yet further upon your already crowded space. Three whole columns were taken up by them last week, and it is significant that no fewer than nineteen distinct queries referred to the Dangerous Drugs Act Regulations. Taken in conjunction with the fact that every recent number of the paper has devoted several pages to this D.D.A. (one is tempted to write the "D.D." with a long dash between), we have some indication of the trouble in store for us. It will be impossible to submit every point to you as it arises from week to week; even your patience might give way to the cry of "Hold! enough!" and in any case we shall have to deal with difficulties as they occur, and it is clear that no foresight can warn us against them all. The calculations necessary to ensure safety will puzzle a good many of us, and I am not surprised to hear from several friends that they would prefer to refuse rather than to dispense prescriptions involving so much bother.

Unable to Buy

chocolate at a railway stall after 8 o'clock, a writer in a well-known weekly paper complains that in much recent legislation public convenience has been sacrificed to private gain, the seller being favoured at the expense of the buyer. He will perhaps be pleased to find the sweets shops, for the protection of which from unfair competition the sale of sweets elsewhere after closing hours was prohibited, are now allowed to keep open until 9.30, which should (I don't know whether it is) be accompanied by a similar extension of time elsewhere. There is no doubt some truth in the complaint that trade jealousies and other selfish interests have been allowed too much sway in several recent Acts of Parliament. We, for example, suffer from this cause in connection with the Shops Act. For something more important than the mere convenience of the public, it is necessary that our shops should often be open when others are compulsorily closed, but this is a concession to the public and not to us. It is probably in most cases a cause of loss rather than of gain, since we are allowed at such times to sell necessary medicines only, and we have a right to complain of the narrow interpretation given to "necessaries." Whatever the sweets shops may have suffered from being closed, we probably suffer as much from being open, without being allowed to recoup ourselves for the loss of leisure by selling whatever may reasonably be demanded. In our case private loss, not gain, goes hand-in-hand with public inconvenience.

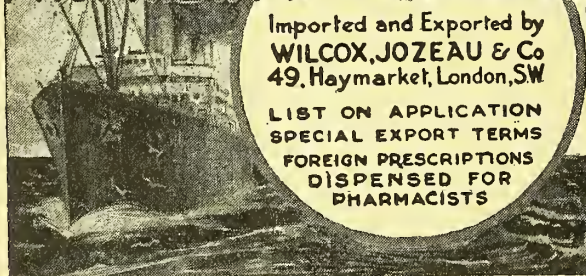
Horsetail (*Equisetum*),

about which a correspondent inquired the other week, was formerly official under the name of *Cauda equina*, and was much esteemed as an astringent. Culpeper quotes Galen as saying that it will heal sinews "though they be cut in sunder," and speaks of it highly for bleeding of the nose, a use to which it is still put by country people. Friend tentatively identifies the plant with the one of which Aubrey speaks in his "Remaines" as growing in churchyards, out of dead bodies, but the reason he gives—that Aubrey compares his plant to asparagus, as some of the old herbalists did horsetail—is not very convincing, and I have not noticed that the latter shows any preference for graveyards. Certainly it grows profusely in places far enough from them.

"SANITAS" EMBROCATION

SHOULD BE STOCKED
BY ALL CHEMISTS.

FRENCH and all FOREIGN PROPRIETARY MEDICINES



Imported and Exported by
WILCOX, JOZEAU & Co
49, Haymarket, London, SW

LIST ON APPLICATION
SPECIAL EXPORT TERMS
FOREIGN PRESCRIPTIONS
DISPENSED FOR
PHARMACISTS

CULTURE MEDIA.

Freshly Prepared and Standardised
Weekly. In Tube or in Bulk.

Apoly—
LABORATORIES OF PATHOLOGY AND PUBLIC HEALTH
6 HARLEY STREET, LONDON, W.1.

REYNOLDS & BRANSON, LTD.

Grand Prix **LEEDS.** Turin, 1911.

PHARMACEUTICAL PREPARATIONS.

Tinctures, Ointments, Pills, Tablets, Suppositories.
Standardised and Clinically Tested Galenicals, &c.

SURGICAL INSTRUMENTS.

X-Ray & Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERAGES.

Sparkling Phospherrade, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS.

(Chemical, Physical and Photographic), Balances and Weights.

CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES

For Quality in
LIQUID PARAFFIN,
B.P.
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AND
WHITE Brilliantine OILS

STERNS Ltd. 80 Royal London House,
Finsbury Square, E.C.1.

Index Folio 340



SELLING AND DISTRIBUTING AGENTS
Sole Representatives for Leading Manufacturers
23 CT. SHIP STREET, DUBLIN. And at Belfast

BRITISH ABSOLUTE ALCOHOL

Jas. Burrough Ltd. D.1 Cole Distillers, Euston Rd.,
LAMBETH, S.E.11.

Editorial Articles

The Inner Mechanism of the Atom

SIR T. EDWARD THORPE, who as President of the British Association for the Advancement of Science delivered an address (by deputy) at the Edinburgh meeting on September 7, is well known in pharmacy. He was elected an honorary member of the Pharmaceutical Society of Great Britain in 1896, and has filled the presidential chair of the Chemical Society, the Society of Chemical Industry, and other technical associations. Sir Edward Thorpe was knighted on his retirement in 1910 from the Government Laboratory, after which he became Dean of the Imperial College of Technology. This was a position he was particularly well fitted for from his wide acquaintance with technical chemistry, as shown in his well-known "Dictionary of Applied Chemistry," a new edition of which is now being issued. He mentioned at Edinburgh on Wednesday night that it is fifty years since at the Edinburgh meeting in 1871 he first became a member of the British Association. Sir Edward is especially known for his biographies of chemists and physicists, which are written in a charming literary style. It is not surprising, therefore, to find that his address at Edinburgh was a much-appreciated contribution to the meeting of the British Association. A survey of the early aims of the Association occupied the first

part of the address, and it was shown that many of the chief scientific organisations originated at meetings

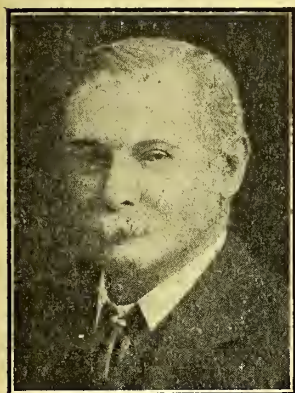


Photo. [Lafayette.

SIR EDWARD THORPE, C.B., F.R.S.

of the Association. Examples mentioned were the Cavendish Laboratory at Cambridge, the National Physical Laboratory, and, recently, the Department of Scientific and Industrial Research. Fifty years ago at Edinburgh Lord Kelvin, the President of the Association, in his address dealt with the molecular theory of matter, and Sir Edward Thorpe took up the theme, which he developed in the light of recent conceptions as to the inner mechanism of the atom. Sir J. J. Thomson was the first to afford direct evidence that the atoms of an element, if not exactly of the same mass, were at least approximately so, by his method of analysis of positive rays. By an extension of this method Mr. F. W. Aston has succeeded in showing that a number of elements are in reality mixtures of isotopes. It has been proved, for example, that neon, which has a mean atomic weight of about 20.2, consists of two isotopes having the atomic weights respectively of 20 and 22, mixed in the proportion of 90 per cent. of the former with 10 per cent. of the latter. By fractional diffusion through a porous septum an apparent difference of density of 0.7 per cent. between the lightest and heaviest fractions was obtained. The kind of experiment which Maxwell imagined proved the invariability of the hydrogen atom has sufficed to show the converse in the case of neon. The element chlorine has had its atomic weight repeatedly determined, and, for special reasons, with the highest attainable accuracy. On the oxygen standard it is 35.46, and this value is accurate to the second decimal place. All attempts to prove that it is a whole number—35 or 36—have failed. When, however, the gas is analysed by the same method as that used in the case of neon it is found to consist of at least two isotopes of relative mass 35 and 37. There is no evidence whatever of an individual substance having the atomic weight 35.46. Hence chlorine is to be regarded as a complex element consisting of two principal isotopes of atomic weights 35 and 37 present in such proportion as to afford the mean mass 35.46. The atomic weight of chlorine has been so frequently determined by various observers and by various methods with practically identical results that it seems difficult to believe that it consists of isotopes present in definite and invariable proportion. Mr. Aston meets this objection by pointing out that all the accurate determinations have been made with chlorine derived originally from the same source, the sea, which has been perfectly mixed for æons. If samples of the element could be obtained from some other original source it is possible that other values of atomic weight would be obtained, exactly as in the case of lead in which the existence of isotopes in the metal found in various radioactive minerals was first conclusively established. Argon, which has an atomic weight of 39.88, was found to consist mainly of an isotope having an atomic weight of 40, associated

to the extent of about 3 per cent., with an isotope of atomic weight 36. Krypton and xenon are far more complex. The former would appear to consist of six isotopes, 78, 80, 82, 83, 84, 86; the latter of five isotopes, 129, 131, 132, 134, 136. Fluorine is a simple element of atomic weight 19. Bromine consists of equal quantities of two isotopes, 79 and 81. Iodine, on the contrary, would appear to be a simple element of atomic weight 127. The case of tellurium is of special interest in view of its periodic relation to iodine, but the results of its examination up to the present are indefinite. Boron and silicon are complex elements, each consisting of two isotopes, 10 and 11, and 28 and 29, respectively. Sulphur, phosphorus, and arsenic are apparently simple elements. Their accepted atomic weights are practically integers. All this work is so recent that there has been little opportunity, as yet, of extending it to any considerable number of the metallic elements. These, as will be obvious from the nature of the methods employed, present special difficulties. It is, however, highly probable that mercury is a mixed element consisting of many isotopes. These have been partially separated by Brönsted and Hervesy by fractional distillation at very low pressures, and have been shown to vary very slightly in density. Lithium is found to consist of two isotopes, 6 and 7. Sodium is simple, potassium and rubidium are complex, each of the two last-named elements consisting, apparently, of two isotopes. The accepted atomic weight of caesium, 132.81, would indicate complexity, but the mass spectrum shows only one line at 133. Should this be confirmed caesium would afford an excellent test case. The accepted value for the atomic weight is sufficiently far removed from a whole number to render further investigation desirable. Sir J. J. Thomson extended the electronic theory of matter to the explanation of the Periodic Law, to the atomic number of an element and to the varying power of chemical combination in an element termed valency. The number of electrons in an atom of the different elements has now been determined, and has been found to be equal to the atomic number of the element, that is to the position which the element occupies in the series when the elements are arranged in the order of their atomic weights. We know now the nature and quantity of the materials of which the atoms are made up. The properties of the atom will depend not only upon these factors but also upon the way in which the electrons are arranged in the atom. This arrangement will depend on the forces between the electrons themselves and also on those between the electrons and the positive charges or protons. One arrangement which naturally suggested itself is that the positive charges should be at the centre with the negative electrons around it on the surface of a sphere. Mathematical investigation shows that this is a possible arrangement if the electrons on the sphere are not too crowded. The mutual repulsion of the electrons resents overcrowding, and Sir J. J. Thomson has shown that when there are more than a certain number of electrons on the sphere, the attraction of a positive charge, limited as in the case of the atom in magnitude to the sum of the charges on the electrons, is not able to keep the electrons in stable equilibrium on the sphere, the layer of electrons explodes and a new arrangement is formed. The number of electrons which can be accommodated on the outer layer will depend upon the law of force between the positive charge and the electrons. Sir J. J. Thomson has shown that this number will be eight with a law of force of a simple type. In a similar manner Sir Edward Thorpe dealt with the

Periodic Law and valency, and showed that the term atomic weight has acquired for the chemist an altogether new and much-wider significance. Fresh work is before the International Atomic Weight Committee in revising existing data regarding atomic weights. The last part of Sir Edward Thorpe's address was a scathing indictment of the use by the Germans of poisons in warfare, which, on April 25, 1915, showed that "German *Kultur* apparently had absolutely no ethical value." He suggested that the use of poisons was at the instance of persons connected with the great manufacturing concerns in Rhineland who are known to have been linked up years before in the service of the war. The arguments of the advocates of chemical warfare, said Sir Edward, carry no conviction, and he concluded by asking the Association to set its face against the continued degradation of science in thus augmenting the horrors of war. The Association, he said, "could have no loftier task than to use its great influence in arresting a course which is the very negation of civilisation."

Safeguarding Chemical Industry

WE are informed by the Board of Trade that the list of goods chargeable with Customs duty under the Safeguarding of Industries Act, 1921, will be published on September 12, and will be obtainable from H.M. Stationery Office. In further reference to our statement last week (p. 58), in which we indicated that imported tablets, pills, etc., are outside the Act, it does not necessarily follow that *all* imports of these goods are indiscriminately not covered by the Act, even if they contain an ingredient other than the one liable. Part I., section 4, says: "No duty shall be charged under this section in respect of the compound article if the compound is of such a nature that the article liable to duty has lost its identity." When disputes arise as to whether any article has "lost its identity" or not, the complaint is to be referred to an arbitrator to be appointed by the Lord Chancellor. We anticipate that if all imported proprietary medicines are to be held up by the Customs, as they undoubtedly will be, pending information as to their composition, the referee is in for a busy time. It is interesting to note from the Act, which we print in full on page 38, that this referee is not to be an official of any Government department—a concession which was not in the original Bill. It should be pointed out that orders made under Part II. of the Act, dealing with the Prevention of Dumping, are to continue in force for three years or such less period as may be specified in the order; whereas Part I. of the Act, which deals with the charge of Customs duties on goods in the schedule, is to continue in force until the expiration of five years. Another important alteration which was made in the Bill when passing through Parliament is that sulphate of quinine of vegetable origin is excluded from duty. The permanent panel of commercial men to deal with the question of dumping is to consist of five, not three, as originally intended. The section dealing with the Prevention of Dumping has been considerably altered, and no orders will be made in regard to that section unless the committee report that the manufacture of the goods in question is being carried on with reasonable efficiency and economy. This panel of business men, who are to have no actual interest in the goods they are investigating, will report to the Board of Trade. They are to find out whether the goods are sold in this country at a price less than the cost of production in the country of origin. Also, whether employment is suffering

in any industry in consequence of the importation and sale of such goods; and, lastly, will any consuming industry suffer by the tax thus placed on its material. It must not be forgotten that before this part of the Act regarding dumping becomes effective it will be necessary to denounce commercial treaties with some twenty-six countries, a list of which was given in our issue of August 27. It is the opinion of the drug trade that the Act threatens the consumer with a renewed advance in prices to the extent of the duty, and possibly more. Merchants condemn the Act from the export point of view, their argument being that they may be compelled to place their orders in Germany for direct shipment to their customers, and this in spite of the Customs drawback which is to be allowed on re-exports. On the other hand, it should increase Canadian exports of certain pharmaceutical and technical chemicals, such as aspirin, paraldehyde, pyrogallol acid, acetic, gallic, tannic acids, etc., in which that country has specialised.

Scientific Progress

Temperatures under this heading are on the Centigrade scale.

Iodine Value of Resins.—The iodine value of fatty oils is practically the same whether determined by the Hübl or the Wijs method. This is not so with resins, the differences being very erratic and having no relationship with each other. In fact, the iodine value for shellac is twice as high when determined by the Wijs method as when determined by the Hübl method, and E. J. Parry has stated that the Hübl method is the more reliable for resins, as the slightest variation in conditions causes the Wijs process to yield very different results. This is borne out in a paper by MacLean and Thomas in the "Biochemical Journal" (1921, 15, 319), where it is shown that the Wijs method gives higher results with resins probably because the reagent acts as an enolising agent, and so alters the constitution of the compound before the addition of the iodine takes place. For example, with abietic acid the Hübl reagent shows the addition of four atoms of iodine, which is the theoretical amount, while the Wijs reagent adds six atoms of iodine. The same is true with sterol compounds.

Java Cinchona Analysis.—A method of assay for cinchona bark is described by Dibbetz ("Algem. Landbouweekbl. v. Neder. Ind.," November 12, 1920). The bark is dried, powdered, and mixed with sufficient strong solution of ammonia to form a powdery mass. This is allowed to stand overnight in a well-closed flask, and on the following morning benzol is added, and the whole well shaken. By means of a separator the benzol is withdrawn, and then shaken up with 10-per-cent. sulphuric acid. It is, of course, necessary to work with known quantities of benzol and bark, in order to estimate percentages. After the benzol has separated from the acid, a measured amount of the former is removed and evaporated to dryness, the residue is then neutralised with a very dilute alkali. The mixture is allowed to stand, and if no crystallisation occurs, it is further concentrated by evaporation. The well-washed crystals are collected on a weighed filter, and dried until there is no more loss of weight. The amount of quinine which has passed into solution in the washings must also be taken into account. The quinine sulphate crystallises and, on drying, the crystals disappear, yielding an amorphous powder. Benzol is used because it takes up practically none of the other alkaloids of the bark. This method is suitable for the manufacture of quinine sulphate.—In a later article (December 3) Dibbetz suggests that the crude alkaloid produced on each plantation should be delivered to a co-operative factory, and there made into tablets. By extracting the quinine on the plantation, and then continuing the manufacturing processes in a co-operative factory, large sums would be saved in freight.

Dangerous Drugs Act

Form of Licence.

It is an interesting fact that the new form of licence to supply as given below does not require that the quantity purchased should be stated, as in the old form of licence full particulars of the quantity had to be given, and also the form in which the drug was supplied. This, we believe, is a concession made after representations from the wholesale drug-trade.

General

HOME OFFICE.

FORM D.D. 3 A.

Licence No. —.

File No. —.

N.B.—This licence is not valid unless it bears the official stamp in the top right-hand corner.

Licence to Supply

In pursuance of the Dangerous Drugs Act, 1920, the Secretary of State hereby grants to ——— a general licence to supply ——— raw opium, subject to the following conditions:

(1) The licence shall continue in force for one year from the date hereof unless sooner revoked, and on expiry or revocation shall be surrendered to the Secretary of State.

(2) The licence must be produced to the person or firm from whom any supply of the drug is obtained, and must be signed and dated by such person or firm at the time of supply in the form provided on the back hereof.

(3) The licensee shall furnish to the Secretary of State such returns of his purchases as may from time to time be required.

(4) All stocks of the drug shall be kept by the licensee under lock and key and in his own charge or the charge of some responsible servant.

(5) The licence is valid only for the person or firm, and in respect of the address, which are named herein. In the event of the licensee ceasing to carry on business at the address named he shall return the licence immediately to the Secretary of State, and if a licence is desired in respect of another address, shall submit a fresh application with the necessary particulars.

(6) The licence shall be produced for inspection when required by any person duly authorised under the Act.

(Signed) ———

Assistant Under-Secretary of State.

Whitehall.

September 1, 1921.

Entered in Register.

The headings of the Register portion are: (1) Date of supply; (2) signature of person or firm by whom supplied, and address.

"C. & D." Card Notes

Will our readers please make the following correction on the Dangerous Drugs Act card? At the end of Table 2, in the third column, the words "Opium limit, gr. $\frac{1}{4}$ per grain" should read "Opium limit, gr. $\frac{1}{4}$ per five grains."

We find also that some errors have crept into the Weight/Weight Table given in the *C. & D.*, September 3, p. 47. We hope to publish an amended edition of this table, with a further explanation of its uses.

Complimentary references to the *C. & D.* Dangerous Drugs Act card have appeared in "The Lancet" and other periodicals. "Glaxo Service Bulletin" for September has the following: "This card... is well worth the price asked; with it close at hand the pharmacist should be able readily to solve many difficulties that may present themselves."

The current issue of Philip's "Standard" Retail Price List contains this note: "I have been asked to give particulars of the effects of the 'Dangerous Drugs Act,' but I would recommend my subscribers to procure the 'D.D.A. Card' issued by THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4. Post free, 1s. They have always looked after chemists' interests in matters of this kind, and they have brought out a most useful and explicit card, covered on both sides with the necessary information in a concise and easily understood form."

Press Comments

Pure paregoric and laudanum come within the Regulations, and it will be necessary in order to obtain these to provide the name, address, and qualifications of the doctor prescribing, the name and address of the buyer, and certain other particulars. Paregoric as generally used, however, is diluted so that the required percentage is not reached. —"The Morning Post."

It is, of course, difficult to measure the dimensions of the illicit traffic in cocaine, heroin, and kindred kinds of dope, but one was assured yesterday that, in Birmingham, the demand on wholesale firms has decreased steadily during the past three years. It has never been great. The new Act notwithstanding, dopers will still be ready to pay a sufficient inducement to the people who smuggle the drugs from the Continent. Nothing is easier than to bring some ounces of cocaine, say, in one's waistcoat pocket from the other side of the Channel. Still, the new Act is all to the good. It is well meant. —"Birmingham Post."

The public may have a "grouse" against the chemists when they discover the trouble and expense which are now entailed in obtaining even a small quantity of a remedy which hitherto they have purchased easily and cheaply. Their trouble and expense in this connection will be nothing to what it would have been had not the chemists banded themselves together to resist the multitude of restrictions which officialdom sought to impose upon the trade. The campaign of the chemists was not completely successful, but it resulted in the removal from the list of drugs affected by the Drugs Act of a large number of 'popular cures.' —"Glasgow Daily Record and Mail." "Fifeshire Advertiser."

So do the many suffer for the sins of the few and to such a pitch has bureaucracy brought us in this year of freedom. So hedged around are we becoming with restrictions that a course of super-pelismism will soon be necessary if we are to remember all our obligations and sleep peacefully at nights, in the confidence that we have kept all these laws from our youth up. Considering the great difficulty experienced down the ages by mankind in keeping the ten Commandments, written in plain, unmistakable terms, it passes comprehension how it is to be expected that we shall escape condemnation with such a catalogue of crimes to be avoided, and their number increasing daily. —Mr. D. T. Dickinson, chemist and druggist, in the "Chester Courant."

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, September 11

The Birmingham Pharmacists' Motor Club are arranging for a run to Stratford-on-Avon. All motoring chemists in the Midlands are invited. The convoy will leave Birmingham Town Hall, Paradise Street, at 11.30 a.m., and will arrive at Stratford River Bridge about 1 p.m. Visitors and members are to bring their own lunch (picnic style); high tea will be provided at the Swan Hotel, 4s. per head. Birmingham chemists who prefer to travel in charabancs may do so at 6s. 6d. per head. It is anticipated that Coventry, West Bromwich, Walsall, and Wolverhampton will send contingents in force. Tea and charabanc tickets from Mr. F. Mousley, 33 Edgbaston Road, Smethwick. The road arrangements will be under the control of Captain L. J. L. Sparke, the club captain.

Wednesday, September 14

Plymouth Junior Pharmacy Club, Technical Schools, at 1.30 p.m. Motor-coach trip to Torquay. Tickets (9s. 6d. each, to include tea) from M. Lee, 2 Wilton Street, Devonport. All pharmacists' assistants and friends invited.

Devon Pharmaceutical Association, 60 High Street, Exeter, at 3.30 p.m. Meeting.

Retail Pharmacists' Union (Devon Branch), 60 High Street, Exeter, at 4.15 p.m. Meeting.

Woolley Golfing Trophy. Play will commence at 2 p.m. at Chorlton. Medal play. (See p. 34.)

Thursday, September 15

West Ham Association of Pharmacists, Y.M.C.A., Woodgrange Road, Forest Gate, at 3 p.m. Lantern lecture by Dr. J. Stanley White on "The Ductless Glands and their Uses in Medicine."

REXALL CHEMISTS.—A meeting of all agents opposed to the Rexall "Boots" proposals, and who have not signed, will be held on September 22 at the Imperial Hotel, London, at 1.30 p.m.

Association Affairs

Bournemouth.—A meeting of the Bournemouth Pharmaceutical Association was held on September 2, Mr. C. A. Coles in the chair, at which Mr. H. J. Martin (member of the Executive Committee of the Retail Pharmacists' Union) addressed the meeting on

THE DANGEROUS DRUGS ACT.

This Act, he said, is the result of a resolution passed at the International Opium Convention at The Hague in 1912. Like many other resolutions, it may never have been acted upon but for the experiences of the great war, during the strain and stress of which the abuse of these habit-forming drugs became a positive scandal, with the result that, incorporated in the Peace Treaty of Versailles was a clause making it incumbent upon each of the signatories to that Treaty to introduce, within twelve months, legislation dealing with the manufacture, sale, and distribution of these preparations; and the Dangerous Drugs Regulations are the redemption on the part of our Government of the pledge then given. In touching briefly upon those features which affect retail and dispensing pharmacists, Mr. Martin said: "As far as I am aware, this is the first occasion when permanent legislation has made it an offence to be in possession of a thing honestly obtained (unless authorised by a Government Department), and of course will have far-reaching effects. The only drugs with which we need concern ourselves are opium, cocaine, diamorphine, and morphine, and, I suppose, so far as retail sales are concerned, the only preparation likely to cause any trouble is laudanum, which can only be sold retail when diluted to one-fifth the B.P. strength of morphine content. As pharmacists we are given a general authorisation to possess, manufacture, and distribute these drugs by virtue of our qualification and position under the Pharmacy Acts of 1868 and 1908, and this authority can only be taken from us after the Home Office has consulted with the Council of the Pharmaceutical Society. What we have to bear in mind is, that under no circumstances must we allow any preparation containing any of these drugs to pass out of our hands without conforming to the Regulations, unless, of course, the percentage content is less than that mentioned, which for cocaine and diamorphine is half-a-grain in the ounce, and the alkaloid morphine one grain in the ounce, and of the salts of morphine one and one-fifth grains per ounce. Any preparation containing these proportions, or less, are outside the Regulations altogether, and any sales will be subject only to the Pharmacy Acts. The Regulations as regards prescriptions follow on the same lines as the Regulations made with regard to cocaine under the Defence of the Realm Act. The greatest difficulty will probably be met with when we come to supply authorised persons, such as doctors, dentists, etc. When the doctor makes personal application for them it will be quite easy to get him to sign the poisons register. Telephone messages and verbal orders through messengers must be entirely ignored. Then the question arises, will the signature on a written order be sufficient to comply with the requirements of section 17 of the Pharmacy Act, 1868? Probably in the near future the Council of the Society will give a general ruling on this point. Only one register is essential, and this must be available at all times for inspection, in which must be kept a record of all supplies received, giving date, name and address of supplier, and the quantity and form in which supplied, separate sections of the register being reserved for each drug. As regards outgoings, an index which will enable one quickly to turn up the dealings in these drugs both in the prescription- and poison-books is all that is wanted; but here again it will be necessary to allocate separate parts of the index to the different drugs. An ordinary exercise book with half ruled as a register for incomings and the other half as the index for outgoings is all that is necessary. The Executive Committee and the secretary of the Retail Pharmacists' Union have been untiring in their efforts on behalf of the retail pharmacist, and did everything possible to get these Regulations withdrawn; but they had to be content with a considerable modification in the

original Regulations. The Regulations now in force have all the power behind them of an Act of Parliament, and we shall be wise to accept the inevitable and endeavour to carry out the spirit of the Regulations to the best of our ability." Numerous questions were afterwards put, and replied to by Mr. Martin, and a vote of thanks to Mr. Martin for his address was carried with acclamation.

Stoke-on-Trent.—A meeting of the North Staffordshire Chemists' Association was held on September 1, Mr. T. Bentley (President) in the chair. Arrangements have been made by the Director of Education (Stoke) to hold day classes in chemistry at the Wedgwood Institute, Burslem, for the convenience of pharmaceutical students, as the Institute is now recognised by the Pharmaceutical Society for Part I. of the Qualifying examination. Botany is still an evening subject. Mr. Bentley is inquiring as to the numbers likely to be present at the classes, and Mr. Mellor was appointed to negotiate for the Association with the education authorities.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres

ENGLAND

Devon.—Mr. Philip F. Rowsell presided over the final meeting of the Insurance Committee, as at present constituted, at Exeter, on September 5. It was reported by the Medical Benefit Sub-Committee that they had forwarded the proposed Pharmacopœia for the Insurance Committees in the South-West of England to the South-West Joint Pricing Committee for approval. Correspondence had been received from a chemist with reference to the refusal on the part of the South-West Joint Pricing Committee to pass prescriptions ordering "Roboleine," which the Pricing Committee regarded as a nutritive food. The Sub-Committee had written the Pricing Committee inquiring why the prescriptions in question had been returned to the chemist instead of to the Insurance Committee. There has been no definite ruling as to whether this preparation is to be included in the list of available drugs or not, and they also pointed out that the onus of prescribing lies with the doctor. Subsequently a presentation was made to the chairman (Mr. P. F. Rowsell) by Mr. C. Sprague on behalf of the Committee in the form of an illuminated address (see p. 41).

Sheffield.—At a meeting of the Medical Service Sub-Committee, held on August 29, an insured patient complained that he had incurred an account for treatment by a practitioner other than the one by whom he had been accepted for treatment, by reason of his practitioner refusing to visit him when requested urgently to do so. After hearing evidence, the Sub-Committee found that the statement was substantiated, and recommended that the cost incurred by the insured person be paid, and the amount surcharged to the practitioner by whom the insured person had been accepted for treatment.

Shrewsbury.—The newly elected Shropshire Pharmaceutical Committee held a meeting on September 1. Mr. W. Gowen Cross was elected chairman, and it was agreed that two years was a convenient period for the committee to hold office. Messrs. Brown (Ludlow), Reeves (Oswestry), and Sparrow (Bridgnorth) were elected additional members of the committee, and Messrs. Cross, Goulbourn, and Williams were appointed to serve upon the Pharmaceutical Services Sub-Committee. The accounts were passed.

THE AMERICAN TARIFF.—Speaking in the Senate on September 2 Mr. Penrose, chairman of the Senate Finance Committee, said the Fordney Tariff Bill would be rewritten *in toto*. He said that its spirit seemed to be against trade with foreign countries, which is exactly opposite to the Republican doctrine. He stated: "We want foreign countries to trade here all they will." It is, perhaps, significant that the Fordney Bill was drafted before the full implications of the falling-off in foreign trade became patent.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, September 8.

INTEREST this week has centred in the crude drug-auction, which was resumed after an interval of three months. Privately, business continues mostly hand-to-mouth, home trade showing a fair amount of activity, but the export side shows no revival as yet. Senega remains firm; ergot is plentiful, but very quiet; chamomiles will be dear this season; insect flowers are slow of sale, and gentian is steady. Opium is extremely quiet. Balsams are steady. Saffron is scarce and dearer, and cocoa butter is easier. Shellac is steady, and farina quiet. Linseed oil is in good export demand. Mercury is tending downwards. Spices meet with a small demand, cloves being steady and pepper quiet; good-quality chillies are difficult to obtain; sound coriander seed is dearer. Chemically-pure glycerin was reduced 10% per ton to-day.

Higher	Firmer	Easier	Lower
Coriander seed (sound)	Mint oil (Jp.)	Anise, star, oil	Apiol
Paraldehyde	Phenacetin	Camphor (Jp. ref.)	Arsenio
Platinum	Phenazone	Citric acid	Chrysarobin
Saffron	Resorcin, B.P.	Cocoa butter	Codeine salts
	Sodium diethylbarb.	Hyoscyamine salts	Cream of tartar
		Mercury	Glycerin (makers)
	Steadier	(Matto Grosso)	Ipecacuanha
	Acetanilide	Orange peel	Lavender oil
	Cassia oil	Orris (Flor.)	Morphine salts
	Hexamine	Oxalic acid	Potash sulpho-
		Podophyllin resin	guaiacolate
		Sassafras oil	Rhubarb
		Spearmint oil	Rosemary oil
		Spike oil	Saltpetre
		Tartaric acid	Sandalwood oil
			Soda hypo.
			Wintergreen oil

Cablegram

NEW YORK, September 6.—Business is quiet. Salicylates are lower. Salicylic acid is now 22c., sodium salicylate 28c., methyl salicylate 32c., salol 70c., and aspirin 60c. per lb. Senega is cheaper at 70c. per lb.

Crude Drugs, etc.

ALBUMEN.—Prime Chinese hen is quoted at from 2s. 11d. to 3s. per lb., and September-November shipment at 2s. 10d. c.i.f.

ANTIMONY.—There is very little doing, and Chinese crude is widely quoted from about 16l. 10s. to 17l. 10s. c.i.f. Importers take little interest in new importations except for good parcels. Foreign regulus is neglected at around 25l. c.i.f., but there are some sellers occasionally reported at 1l. less.

BALSAM PERU is firm at 7s. 9d. to 8s. per lb. on the spot.

CAMPOR (REFINED) is quiet, with Japanese 2½-lb. slabs offering at 3s. 11d. per lb., and September-October shipment at 3s. 10d. c.i.f. Chinese is 3s. 11d. spot, and September-October shipment 3s. 9d. c.i.f.

CHAMOMILES.—A report is current that, taking advantage of the small Belgian crop this year, as the result of less being sown, endeavours are being made by two firms to "corner" the crop. Small lots of the new Belgian crop are obtainable on the spot at from 220s. to 230s. per cwt., and prices of old crop are being forced up, holders asking 120s. to 130s., and 1920 at 160s. to 170s. French is about 220s.

CINCHONA.—The London auction to be held on September 20 will include 1,000 bales.

COCOA BUTTER is easier, prime English offering ex works at from 1s. 9½d. to 1s. 10d. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on September 5 that the market is firmer with increasing demand, and lately advancing prices have been paid—viz., 95s. to 97s. per barrel, c.i.f. London, for finest new Lofoten medicinal oil.

COPAIBA is steady and unchanged at 1s. 10d. per lb. on the spot.

ERGOT is plentiful on the spot, but demand is quiet, holders offering at 6s. to 6s. 6d. per lb., with 5s. 1d. c.i.f. quoted for Spanish or Portuguese.

GENTIAN has varied little in price for a lengthy period, spot holders still quoting 50s. per cwt. It cannot be imported at a profit, so that shipments have fallen off.

GLYCERIN.—The British refiners have reduced their prices by 10l. per ton, and now quote chemically-pure, s.g. 1.260, at 110l. per ton in 10-cwt. drums in 5-ton lots, and 125l. per ton in 56-lb. tins in cases.

HEN YOLK is quiet, prime Chinese liquid offering at 115s. to 120s. per cwt. and September-November shipment at from 92s. 6d. to 95s. c.i.f.

INSECT FLOWERS are slow of sale, Japanese offering at from 160s. to 170s. per cwt. on the spot, and for Dalmatian 200s. c.i.f. is required.

LINSEED OIL.—A very good export demand is, again reported this week, partly on American account, and the market is influenced by the renewed firmness in seed. Speculative operations continue to play a part both ways. Spot closes at 38s. naked and Hull at 36s. 9d.

MAGNESIUM.—Business is difficult, and the tendency continues in buyers' favour. Home makers would sell at 4s. 6d., and possibly a little less, while offers are made from the Continent at 3s. 6d. c.i.f.

MENTHOL continues quiet, with Kobayashi-Suzuki offering at 22s. 6d. per lb. on the spot, and at 19s. c.i.f. for September-October shipment.

MERCURY.—The tendency is still downward, due to the slackness of demand, and the small orders put through appear to be chiefly secured by sellers outside of the leading quarter, where the limit for Spanish is still maintained at 10l. 10s. per bottle. Competition in the case of Italian is very keen at around 10l. 5s., while some very cheap offers are heard of down to as low as 9l. 15s. per bottle. There are, doubtless, big stocks here, and buyers seem rather determined to wait for concessions.

OPIMUM is quiet, with 12 per cent. Turkey druggists' offering at about 11s. to 11s. 6d. per lb. on the spot, and at 13s. for broken case lots.

PLATINUM.—Current supplies having been apparently curtailed, this, coupled with a continuous active demand, has induced holders to raise their price to about 19l. per oz. Palladium is chiefly nominal and likely to be advanced shortly in sympathy from the recent rate of about 15l. per oz.

SAFFRON is scarce and dearer. Finest qualities on the spot are now quoted at 75s. per lb. Inferior grades, all B.P., however, are offered down to 67s.

SENEGA is still firmly held at 4s. per lb. on the spot.

SHELLAC.—While the market shows some resistance, chiefly due to the fairly good consumptive demand as already indicated by the large deliveries for the month, it is well to bear in mind that the stocks have been heavily increased, and are, in fact, greater than a year ago. Arrivals last month were abnormally heavy, but a reversal of this is expected for awhile. Spot sales of usual standard TN Orange quality have been made at 290s. to 300s. per cwt.; fine lemon is 400s. to 410s., fine second Orange 370s. to 380s., RL1 340s., A.C. cakey 285s., and I.G. 220s. Futures have been steady, the sales including October at 290s. to 295s. and December at 280s. to 285s. per cwt.

STARCH PRODUCTS.—Farina is quiet. Japanese for September-November shipment has been sold at 27s. 6d. per cwt. c.i.f. Dutch on the spot is 27s. 6d. Maize starch powder is cheaper of late, offering at 16s. 6d., and Rice starch crystals are offered at 39l. per ton.

TURPENTINE.—American on the spot closes at 64s. 9d. per cwt.; forward shipment has been active at easier prices.

Seeds and Spices

ANISE.—*Russian* is 74s. per cwt. and *Spanish* 75s. per cwt. on the spot.

ARROWROOT.—Common to good common, manufacturing St. Vincent, is offered at from 3½d. to 3¾d. per lb. Sales include 1,500 barrels St. Vincent at 3d. to 6¾d.

CANARY SEED is stagnant. *Mazagan* is 105s. per quarter c.i.f.; spot 110s. paid. *Larache*, 100s. spot and 95s. c.i.f. *Plate*, 87s. 6d. to 95s. spot, as to quality. *Spanish*, 135s. to 180s., as to quality.

CARAWAY SEED.—*Dutch* is quoted at 32s. 6d. per cwt. to 35s. 6d., as to quality. *Morocco* is 25s.

CLOVES are steady, with spot sales of fair Zanzibar at from 1s. 3d. to 1s. 3½d. per lb., and for September-October shipment 1s. 3d. c.i.f. is quoted.

CORIANDER SEED.—Sound is scarce and firm at 30s. per cwt. spot; wormy 17s. to 25s., as to quality. Out of condition and wormy 16s.

CUMIN SEED quiet on the spot at 65s. per cwt.

DILL SEED is scarce; cleaned on the spot is 25s. per cwt.

FENNEL SEED.—There is practically none on the spot.

FENUGREEK SEED.—Very quiet. Spot 13s. 9d. per cwt., c.i.f. 12s. 6d.

GINGER is firm and in fair inquiry for sound new crop Cochin and Calicut. New Cochin washed rough is quoted at 50s. to 55s., and old wormy Calicut at 40s. New Jamaica is 165s.; wormy, 125s.; Japanese 45s.; and African 31s. per cwt.

HEMP SEED is quoted at 26s. per cwt. spot.

LINSEED is quiet at 27s. 6d. spot and 23s. c.i.f.

MUSTARD SEED is unaltered, good yellow English offering at 38s., and inferior descriptions are 25s. upwards, as to quality.

PEPPER has been quiet, the spot value of fair black Singapore being unchanged at 4½d. per lb. September-November and October-December shipment is quoted at 4½d. c.i.f. Lampong and Tellicherry are both 5d. spot, and Aleppy 4¾d. *White* is also quiet, fair Muntok offering at 9½d. per lb., with September-November and October-December offering at 8¾d. c.i.f. Singapore on the spot is 9½d., and the value of September-November shipment is 8½d. c.i.f.

PIMENTO is quiet, with spot sellers at 2½d. per lb.

Essential Oils

EXCEPT for Sicilian oils, demand appears to have fallen off again. Many sales were no doubt stimulated by the low quotations at which articles were offered. The real test of any improved business will be more apparent with quotations at higher levels. Japanese mint is firmer, and cassia is fairly steady. Star anise has an easier tendency; sassafras, spearmint, and spike oils are also slightly cheaper. Lavender oil is again lower, together with rosemary and wintergreen oils. The official price of Mysore Government sandalwood oil has been reduced.

ANISE (STAR).—"Red Ship" on the spot is quiet and easier at from 2s. 3d. to 2s. 3½d. per lb. For August-September shipment 2s. 3d. c.i.f. is quoted from resellers, and 2s. 4d. to 2s. 4½d. by shippers.

BERGAMOT is firm. For 37-39 l.a. oil, near at hand, 27s. per lb. is quoted, spot being 27s. 6d. to 28s. To come forward offers are made at from 27s. to 29s. c.i.f.

CAMPOR.—Japanese essential, white, is offered in large drums at 135s. per cwt. in one direction for goods landing. Spot is practically unobtainable. To come forward 100s. c.i.f. is quoted. Brown on spot is offered at 115s. for s.g. 1.010, and to come forward 90s.

CASSIA.—For 80-85 per cent. c.a. 4s. 9d. per lb. is the general quotation, being steadier. It may be possible still to find a seller at 4s. 7½d. Forward shipment is 4s. to 4s. 1d. c.i.f. Shipment afloat is offered at 4s. 3d.

CEDARWOOD.—Good business has been done during the week, spot quotations being unchanged at from 2s. 9d. to 2s. 10d. per lb. as to packing.

CINNAMON.—Ceylon leaf is firm, with sellers on the spot at from 4¾d. to 5d. per oz. A high-testing product is quoted 6d. per oz. For shipment 4½d. c.i.f. is about the value.

CITRONELLA.—Ceylon is barely steady at about 1s. 6d. per lb. spot. Forward shipment can be done at 1s. 5½d.

c.i.f., but up to 1s. 7d. is quoted. Java is nominal at 2s. 9d. per lb.

CLOVE.—English distillers quote 9s. to 9s. 6d. per lb. spot, and second-hands are doing business at from 8s. 9d. to 9s. 3d. as to seller and quantity.

GINGERGRASS.—"Insoluble" is unchanged on the spot at 11s. to 12s. per lb. for pots.

LAVENDER.—Finest French oil is offered at more advantageous prices; in some directions 38 to 40 per cent. ester is obtainable at 18s. 6d. per lb. spot, and 35 to 36 per cent. is quoted at 18s.

LEMON is firm at from 3s. 9d. to 4s. 4d. per lb. upwards as to brand. To come forward 4s. c.i.f. is an average figure. A fair spot business is reported during the week.

PALERMO, September 1.—The easier tendency which we last reported has continued. The demand from abroad is quiet, and exporters are not encouraging speculators. The latter, too, have been keeping off the market during the last few days, and figures are consequently nominally easier.

LEMONGRASS.—Cochin on the spot is steady at 3¾d. to 4d. per oz. To come forward business can be done at 3½d. c.i.f.; in some directions 3½d. is quoted.

MINT.—Japanese dementholised Kobayashi-Suzuki is firm on the spot at 4s. 9d. per lb. paid and sellers. For forward shipment 4s. 4½d. to 4s. 6d. c.i.f. is quoted.

ORANGE.—Sicilian sweet is scarce at from 17s. to 18s. per lb., and to come forward these also represent current quotations c.i.f. Bitter is quoted at about 15s. West Indian is unchanged at from 14s. to 15s.

PATCHOULI is quiet and unchanged at 42s. 6d. to 45s. per lb. spot.

PEPPERMINT.—American natural tin oil appears to be very scarce on the spot, only small lots offering at 12s. 6d. per lb. Near at hand is quoted 12s. To come forward, business is being accepted at 11s. c.i.f. for new oil.

ROSEMARY.—Spanish is extremely dull, and spot has declined slightly, quotations being made at from 1s. 10d. down to 1s. 8d. per lb. for quantity.

SANDALWOOD.—The official agents in London for the Mysore Government oil announced on September 1 a reduction of 3s. 6d. per lb. in their quotations; five cases and upwards being quoted at 34s. per lb.; less than five cases, 34s. 6d.; and broken bulk at 35s.; net ex warehouse London. Considerable dissatisfaction has been expressed among London dealers in some quarters owing to the fact that certain merchants have been able to offer Mysore Government oil at less than the official fixed price, and this, it is suggested, handicaps those who, having bought at the official prices, offer the re-sale oil to actual consumers. Further, we have been shown quotations from a responsible Paris house offering to sell Mysore Government oil, B.P. quality, delivered London, at prices below those of the official London agents. West Australian oil is not in much demand at 24s. 6d. per lb. spot, the shipment quotation being 25s. 6d. c.i.f. West Indian (*Ol. amyris*) is unchanged at 17s. 6d. per lb.

SASSAFRAS.—Genuine on spot is slightly easier, holders quoting at from 7s. 9d. to 8s. per lb.

SPEARMINT has an easier tendency, around 26s. per lb. being the current quotation for small lots.

SPIKE.—Spanish on the spot is fairly steady at 4s. per lb. New crop oil to come forward is quoted at 3s. 9d. c.i.f.

WINTERGREEN (SWEET BIRCH OIL).—On the spot 18s. per lb. is quoted, which is easier.

Pharmaceutical Chemicals

ALTHOUGH there has not been a great increase in the amount of business done during the past week, there has been a general tendency to firm up values on the part of holders, who have in view the restricted cheap supplies after the Safeguarding of Industries Act comes into operation. This Act is beginning to have some effect, more especially on the market for salicylates, but the uncertainty as to exactly what chemicals will be subject to duty prevents it being felt as much as it otherwise would. There is a certain amount of speculation taking place, and a fair quantity of goods are being ordered for shipment from abroad. Phenacetin, phenazone, resorcin, and sodium diethylbarb. are firmer; acetanilide and hexa-

mine are steadier. Morphine, codeine, citric acid, tartaric acid, cream of tartar, sodium hyposulphite, and potash sulphoguaicolate are among the cheaper products. ACETANILIDE (crystals and powder) is much steadier this week at 1s. 4d. to 1s. 5d. per lb.

APIOL.—Makers' September list prices show a reduction of 1s. per lb. to 3s.

ASPIRIN has still a tendency to become harder at from 2s. 9d. to 3s. per lb.

ATROPINE SULPHATE is about steady at 21s. to 22s. per oz.

BARBITONE continues weak at 12s. 6d. to 13s. 6d. per lb.; market remains dull.

BENZOIC ACID remains unchanged at 2s. to 2s. 3d. per lb., and is perhaps steadier, but still quiet.

BENZONAPHTHOL is quoted at 6s. 6d. to 6s. 9d. per lb.

BETANAPHTHOL continues weak, with few inquiries for large stocks offering round about 3s. to 3s. 3d. per lb.

BROMIDES.—Ammonium is maintained at 11d. per lb., potassium at 8d. to 8½d., and sodium at 9½d. to 10d. per lb. Business is still poor, but values steadier.

CAFFEINE is steady at 18s. 6d. for the pure alkaloid.

CHLORAL HYDRATE is steady on a quiet market at 4s. 9d. per lb., duty paid.

CHRYSAROBIN has been reduced by 1s. 6d. per lb., makers quoting 7s. per lb.

CITRIC ACID is easier at 2s. 4d. to 2s. 4½d. per lb., less 5 per cent., but there has only been the smallest inquiry.

CODEINE.—Makers have reduced their prices by 6d. per oz., and now quote the pure alkaloidal crystals and precipitated at 14s. 6d., hydrochloride and sulphate at 11s. 9d., and phosphate at 11s. per oz.

CREAM OF TARTAR is easier at about 125s. to 127s. 6d., less 2½ per cent., for imported material.

CREOSOTE (B.P.) is steady at 4s. 9d. per lb.; market is dull.

CREOSOTE CARBONATE is well maintained at 14s. per lb., with the market still quiet.

GUAIACOL CARBONATE still selling in small quantities, but considerable stocks could be secured at lower than quoted price of 14s. per lb.

HEXAMINE is showing signs of firming up; not much obtainable at 4s. per lb. now.

HYDROQUINONE is unchanged on a quiet market at 4s. 6d. per lb.

HYOSCYAMINE.—Makers' list price shows a slight reduction to 3s. 6d. per 15 grains for alkaloidal and salts.

METHYL SALICYLATE is held at recent advanced figures of 2s. 2d. to 2s. 3d. per lb., but buyers are few.

METHYL SULPHONAL.—B.P. remains at 19s. and U.S.P. at 17s. 6d. per lb.; business is small.

MORPHINE SALTS.—Makers have reduced their prices by 9d. to 11d. per oz., and now quote as follows: Pure alkaloidal crystals, 13s. 1d.; precip., 12s. 10d.; acetate, 10s. 3d.; bromide, 12s. 10d.; hydrochloride, 10s. 3d.; cryst., 10s. 6d.; meconate, 12s. 10d.; sulphate, 10s. 3d.; cryst., 10s. 6d.; neutral tartrate, 12s. 10d.

PARAFORMALDEHYDE has been advanced to 3s. 3d. to 3s. 6d. by holders, but business is difficult at these figures.

PARALDEHYDE remains a dull market, with values at from 1s. 10d. to 2s. 2d. per lb.

PHENACETIN is firmer at 5s. 6d. to 6s. per lb.; it may go higher shortly.

PHENAZONE is also firmer at 7s. 6d. per lb., with holders refusing anything lower.

PODOPHYLLIN RESIN.—Makers' list price shows a reduction of 1s. per lb. to 27s. for small parcels.

POTASSIUM PERMANGANATE (B.P.) still moves at 1s. per lb. for imported stuff.

POTASSIUM SULPHOGUAICOLATE has eased off considerably to 7s. 6d. per lb., and even cheaper prices for forward are being quoted.

RESORCIN is much firmer this week; nothing now offering below 8s. per lb.

SALICYLATES.—Acid is about 1s. 3d. to 1s. 5d. per lb. sodium salicylate powder 2s. 2d. to 2s. 3d., and crystals 2s. 5d.

SALOL is down to about 2s. 6d. per lb., but still drags.

SANTONIN has been selling freely during the week at previous prices in spite of the fact of the rumours of a large arrival from Reval.

SODIUM BENZOATE remains unchanged at 2s. 3d. per lb.

SODIUM DIETHYLBARBITURATE is firmer at 22s. to 22s. 6d. per lb.

TERPIN HYDRATE remains quoted steadily at 3s. 6d. per lb.

THYMOL is nominal, without business.

VANILLIN has a firmer tendency at 34s. to 35s. per lb.

Heavy Chemicals

London, September 8.

THERE is no improvement to record this week. Business is still unsatisfactory all round, and holders are still willing to cut prices in order to effect sales. Hypo pea crystals are in considerable supply, with only poor demand, consequently prices have weakened.

ACETIC ACID remains neglected, with values unsteady; 80 per cent. technical is 37l. to 38l. and 98 per cent. glacial 50l. per ton.

ALUM is quoted very cheaply from the Continent, and undercutting home production; there is, however practically no demand; British is 17l. per ton.

ARSENIC.—Although comparatively high rates are still named in some quarters chiefly for retail lots, the market seems like going to pieces, some agents having taken orders for white Cornish down to about 30l. delivered London for good quantities. Current terms are nominally in the neighbourhood of 33l.; unless the demand picks up further concessions seem likely where business is being pressed.

BARIUM CHLORIDE (98 to 100 per cent.) from the Continent is offering at 13l. per ton; British is about 17l. per ton. There has not been much inquiry.

BARYTES remains steady, and in limited demand, at 5l. 5s. per ton for grey, and up to 7l. 10s. for best white material.

BLANC FIXE is quoted firm at 22l. 10s.; the demand is moderate, and values are quite steady.

COPPER SULPHATE.—Market is very patchy, some fair-sized export inquiries being reported and the terms asked are very irregular, although the undertone seems firmer due to the further sharp rise in the price of rough bar copper. Comparatively low prices were apparently accepted lately in Lancashire on home account down to about 29l., but f.o.b. export terms vary from 30l. to 32l. less 5 per cent. basis for casks. Quality, of course, has something to do with the widely divergent terms ruling.

ERSOM SALTS is being asked for now and again, and quoted at 8l. 10s. per ton in single bags for commercial quality.

FORMALDEHYDE finds no buyers; small lots are offering at 90l. per ton ex stores.

GLAUBER'S SALT is nominal, and market lifeless at 5l. to 5l. 5s. per ton.

LEAD ACETATE is still neglected, and freely offered at 47l. per ton for brown broken and 52l. for white crystals.

LEAD PRODUCTS.—The position in most descriptions of compounds is rather colourless, and with keen foreign competition, export business is very difficult. Manufacturers are doubtless much in want of orders, which is having its reflex on the poorness of demand for raw material, but the price of the latter is remarkably well maintained. For this reason the tendency of either red lead or white lead is very steady.

LITHARGE from the Continent is offered at about 33l. 10s., against British at about 35l. 10s. There is very little inquiry.

LITHOPONE is in small demand. Thirty per cent. Continental red seal is neglected, and quotations still vary from 25l. 10s. to 27l. 10s. per ton. Light resisting and green seal are steady.

OXALIC ACID is offering from stock at 7½d. per lb., but there are very few buyers in the market.

POTASH CAUSTIC finds buyers holding off; spot lots are offering at 30l. to 31l. per ton. Much lower figures are quoted from Continent for forward shipment.

POTASSIUM BICHROMATE on the spot is offering at 8½d. per lb.; inquiry is only occasional; values unsteady.

POTASSIUM CARBONATE on the spot is offered at about 26*l.* per ton, but the market is inactive.

POTASSIUM PERMANGANATE.—Commercial quality is offering at 11*d.* per lb. (imported material).

POTASSIUM PRUSSATE remains steady; yellow is 1*s.* 2*d.* to 1*s.* 2½*d.*, and red 2*s.* to 2*s.* 3*d.* per lb.

RED LEAD from the Continent quoted with a few sales at about 32*l.* 10*s.* to 33*l.* per ton.

SALTCAKE could be had from the Continent at 4*l.* per ton f.o.b., but such offers are neglected; there is no demand.

SODA ASH (58 per cent. light alkali) on the spot is at about 8*l.* 5*s.* per ton, but very few inquiries are coming through; makers' prices are unchanged at 8*l.* 10*s.* and 10*l.* 5*s.* for home and export trades.

SODA CRYSTALS ex works or station is 7*l.* per ton.

SODIUM BICARBONATE has fallen away in demand, but prices are well maintained at 12*l.* to 12*l.* 10*s.* per ton for refined material on the spot.

SODIUM CAUSTIC ex makers' works, for home trade only (70 to 72 per cent.), 24*l.* 10*s.*, and 76 to 77 per cent. at 26*l.* 15*s.*; parcels offering on the spot at 22*l.* 10*s.* for 70 to 72 per cent. and 25*l.* for 76 to 77 per cent. Business is very poor; in fact, almost nothing doing.

SODIUM CYANIDE (100 per cent. basis) remains steady at 11*d.* to 11½*d.* per lb.; the market is still quiet.

SODIUM HYPOSULPHITE is cheaper. Considerable stocks are offering, with but very little demand; pea crystals in 1-cwt. kegs 20*l.*, and commercial 14*l.* per ton, Continental stuff.

SODIUM PRUSSATE is 6½*d.* per lb., but business is poor.

SODIUM SULPHIDE remains quoted on the spot at 24*l.*, but there has been no inquiry; makers quote 22*l.* for 60 to 65 per cent. concentrated in casks.

SODIUM SULPHITE meets with no inquiry for anhydrous material, and values are nominal.

TIN CRYSTALS are still quoted at 1*s.* 5*d.* per lb. on a dull market.

ZINC DUST.—English and American remains steady at 52*l.* 10*s.* per ton for 92 to 94 per cent. material.

ZINC PRODUCTS.—There has been a turn for the better in raw zinc from a comparatively low level as recorded last week, and the demand for derivatives is expected to pick up, but quotations can hardly be raised for some time yet. German and French competition is well in evidence, especially in zinc oxide.

COAL-TAR PRODUCTS, ETC.—Values are generally well maintained, and a small business continues to be done. Aniline oil is 1*s.* 2½*d.* per lb.; steady and quiet. Betanaphthol is 1*s.* 9*d.* per lb. Crude burning oil, No. 3, 8½*d.* and No. 2, 8*d.* per gallon. Carbolic-acid crystals are weak at 7*d.* per lb. Cresote oil is 9*d.* per gallon, barrels free. Cresylic acid: Crude is 1*s.* 10*d.*; dark, 2*s.* 3*d.*; pale straw, 2*s.* 6*d.*; values are steady and market quiet. Solvent naphtha (90 to 160) is 2*s.* 5*d.* per gallon. Heavy solvent naphtha (90 to 190) is 2*s.* 6*d.* per gallon. Toluol and xylol are nominal, markets being lifeless.

London Drug-auctions

Commercial Sale Rooms,
Mincing Lane, E.C. 3, September 8.

THE third auction of the year was held to-day, after an interval of three months, when a good selection of drugs offered. The demand showed a welcome improvement on the previous auctions, and, although prices of one or two staples were cheaper, there were no decided reductions. Cape aloes was quite neglected, and only small sales of Sumatra benzoin were made. Calumba could not be disposed of, even although offered without reserve. Cardamoms met with an improved sale, particularly for parcels approaching anything like good quality, but old imports were neglected. Cubebs have been selling at easier prices lately, but there was no public demand. No reboiled dragon's blood offered, other descriptions being neglected. Honey was in improved request, at full prices for Jamaica. Matto Grosso ipecacuanha is lower, and, with large stocks, buyers only replenish from hand to mouth. Myrrh is difficult to sell, although prices are cheaper. Florentine orris sold cheaply, and for a line of orange peel

rather easier prices were accepted. Olibanum about maintains previous prices. Rhubarb sells only in retail, and the undertone continues easy. Grey Jamaica sarsaparilla was irregular, but native Jamaica was firm. Tinnevely senna failed to sell, but no good quality offered. Jamaica beeswax had been sold privately. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite root ...	1	1	Honey—		
Ajowan seed ...	35	0	Hayti ...	196	113
Aloes—			Italian ...	4	0
Cape ... (cs.)	167	0	Jamaica ...	307	193
Curaçao ...	22	0	Trinidad ...	4	4
Zanzibar ...	5	1	Ipecacuanha—		
Ambergris ... (oz.)	46½	0	Cartagena ...	9	0
Ammoniacum (tins)	25	0	Matto Grosso ...	40	6
Anise (-pan.) ... (cs.)	2	0	Minas ...	16	0
Annatto seed ...	93	0	Jambul seed ...	1	0
Areca ...	120	0	Kol ...	89	9
Argol ...	112	0	Laurel leaves ...	25	0
Asafetida ...	2	0	Lavender oil (bott.)	2	0
Balsam, Peru ...	2	0	Lemongrass oil ...	1	0
Balsam tolu ...	20	0	Lemon peel ...	20	0
Basil oil ...	3	0	Liquorice juice (cs.)	9	2
Belladonna root ...	90	0	Liquorice root ...	109	0
Benzoin—			Mastic ...	13	1*
Palembang ...	53	0	Musk (Assam) (bott.)	2	2
Siam ...	20	2*	Musk seed ...	17	0
Sumatra ...	237	13	Myrrh ...	178	0
Buchu leaves ...	36	0	Olibanum ...	215	0
Calabar beans ...	3	0	Orange peel ...	103	55
Calumba ...	1,348	0	Orris Ital. ...	74	5
Cannab. ind. ...	61	0	Mog. ...	5	0
Cant. arides ... (ch.)	6	0	Petitgrain oil ...	5	0
Cardamoms ...	684	124	Pine, ground ...	1	0
Cascarilla sifts ...	2	0	Pistachio nuts ...	5	0
Chiretta ...	24	0	Rhatany ...	1	1
Chinchona ...	281	0	Rhubarb (Ch.) ...	84	8
Cinnamon leaf oil ...	4	2	Sage ...	185	185
Coca leaves ...	1	0	Sandarac ...	40	0
Cochineal ...	5	0	Sarsaparilla—		
Coudurango ...	1	1	Grey Jamaica ...	39	8
Copaiba ...	2	0	Mexican ...	5	0
oil ... (tin)	1	0	Native Jam. ...	38	4
Cream of tartar subs. (bgs.)	156	0	Sassafras bark ...	5	0
Croton seed ...	22	0	Seedlac ...	46	0
Cubebs ...	55	0	Senna and pods—		
Digitalis leaves ...	20	0	Alex. ...	78	40
Dill seed ...	50	0	Tinnevely ...	474	24
Dragon's blood ...	29	0	Simaruba ...	1	0
Elemi ... (cs.)	108	5*	Squill ...	25	5
Elecampane ...	1	0	Stramonium ... (cake)	13	0
Essential oil ... (cs.)	2	0	Strophantbus ...	71	0
Eucalyptus oil ...	26	10	Tamarinds (E.I.)	257	0
Euphorbia pil. ...	16	0	Thymol ... (lb.)	28	0
Fennel seed ...	10	0	Tonka beans ...	21	0
Galangal ...	97	0	Tragacanth ...	74	4
Galls ...	64	0	Turmeric ...	590	0
Gamboge ...	48	0	Turtle, dried ...	4	0
Gentian ...	10	0	Wax (bees')—		
Guaiacum ...	33	0	Abyssinian ...	20	0
Guarana ...	8	0	Beladi ...	17	0
Gurjun oil (drms.)	35	0	Chilian ...	16	0
Henbane ...	189	0	East African (various)	18	21*
			East Indian ...	37	0
			Jamaica ...	18	18*
			Mozambique ...	20	0

* Sold privately.

The next drug-auction, which will be the last of the year, will be held on November 3, eight weeks from to-day. A proposal to alter the hour of commencement from 10.30 a.m. to 11 a.m. was rejected.

ACONITE ROOT.—A single bag of Japanese sold at 70*s.* per cwt.

ALOES.—A large quantity of Cape offered, of which only a small proportion consisted of firsts. There was no demand, however, and offerings were bought in. Fair to good firsts were obtainable at from 44*s.* to 46*s.* per cwt., and other qualities in proportion. A single case of good Zanzibar in skins sold at 7*l.* per cwt.; 19 cases dull livery Curaçao were bought in at 90*s.* per cwt.

ANNATTO SEED.—Good, bright Madras were offered at 5*d.* per lb., at which sales have been made privately.

ANISE.—In the drug-auction 25 bags Spanish offered in prize were held at 75*s.* per cwt.

ARECA was plentiful, with fair sound medium to bold offering at 25*s.* per cwt., and for 100 bags good sound lying in Liverpool 20*s.* was wanted.

BALSAM TOLU.—Ten cases fair were retired at 1*s.* 8*d.* per lb., and for 10 cases ditto in another interest 1*s.* 6*d.* was mentioned as the price.

BELLADONNA ROOT.—A lot of 90 bags East Indian, without test, was limited at 1*s.* per lb.

BENZONIN was neglected. A bid of 8*l.* 15*s.* was refused for good fair almondy Sumatra seconds, the value being 9*l.* per cwt. Three cases of good thirds of old fracture sold at 4*l.* 10*s.*, and three cases middling seconds cross-cut sold at 5*l.* per cwt. The offering of Palembang included 11 cases good seconds, for which 6*l.* 5*s.* per cwt. was wanted. Two cases Siam had been sold privately. Good second Siam almonds, mostly loose, of nice flavour were held at 37*l.* per cwt., and other qualities in proportion.

BUCHU was neglected. Fair to good green round, slightly stalky, were obtainable at from 6*s.* to 6*s.* 3*d.*, small round greenish at 5*s.* 9*d.*, yellow to yellowish 5*s.* 6*d.* to 5*s.* 8*d.* Green longs, slightly stalky, 5*s.* 6*d.* to 5*s.* 7*d.*, long ovals 5*s.* 3*d.*, and ovals at from 3*s.* 6*d.* to 5*s.* 6*d.* for inferior yellow stalky mixed to good.

CALABAR BEANS.—Three bags fair were bought in at 8*d.* per lb.

CANNABIS INDICA.—A single case of fair Bombay tops was bought in at 28*s.* per lb., and for a further three cases in another catalogue from 30*s.* to 35*s.* per lb. was wanted. Forty bags loose African tops were retired at 1*s.* 6*d.* per lb.

CANTHARIDES.—Chinese have been selling privately 4*s.* 3*d.* per lb., which was the price asked in auction.

CARDAMOMS met with a much better demand at full prices for anything approaching good quality, but parcels of old import were neglected. The following prices were paid: good bold round palish to pale, 5*s.* to 5*s.* 4*d.*; bold and medium palish to pale, 4*s.* to 4*s.* 5*d.*; bold medium ditto, 3*s.* 6*d.* to 3*s.* 9*d.*; small and medium palish to pale, 2*s.* 6*d.* to 2*s.* 10*d.* *Splits*, good bold, 3*s.* 10*d.*; bold medium, 2*s.* 9*d.* to 3*s.* 3*d.*; small, 1*s.* 8*d.* to 2*s.*; ordinary to good pickings, 1*s.* to 1*s.* 6*d.*; pale seed, 2*s.*

CASCARILLA.—For two barrels siftings the retail price was 1*s.* 6*d.* per lb.

CHIRETTA.—Several lots of fair quality were obtainable at 9*d.* per lb.

CINNAMON LEAF OIL.—Two cases East Indian with a eugenol content of 91 to 92 per cent. (Parry's analysis) sold at 6*s.* per lb., subject to seller's approval; two cases Ceylon leaf without analysis were held at 4½*d.* per oz.

CREAM OF TARTAR.—A lot of 156 bags cream of tartar substitute offered without reserve, but no bid was made.

CUBERS.—Several parcels of fair genuine slightly stalky berries were limited at 20*l.* per cwt., at which sales have been made privately.

EUPHORBIA PILULIFERA.—A parcel of 16 bales was bought in at 55*s.* Recent business has been done at 50*s.* per cwt.

EUCALYPTUS OIL sold at steady rates, 5 cases 81 to 82 per cent. eucalyptol realising 1*s.* 9*d.*, and 5 cases 77 to 78 per cent. also went at 1*s.* 9*d.* per lb. Amygdalina was bought in at 1*s.* 4*d.* and Citriondora at 10*s.* per lb.

FENNEL SEED.—In the drug auction 10 bags fair clean offered on account of the Marshal of the Admiralty, and a bid of 25*s.* was refused.

GURJUN OIL was obtainable in drums or casks at 1*s.* 2*d.* per lb.

HONEY met with an unexpectedly good demand, chiefly for new crop Jamaica and new crop Hayti for potting purposes at full prices for the better qualities, and for medium qualities, at slightly below the prices paid privately. Of 307 packages Jamaica 195 sold, comprising pale set, 58*s.* to 68*s.*; pale setting, 50*s.* to 58*s.*; light amber setting, 60*s.* to 70*s.*; and dark amber, 32*s.* to 43*s.* Of Hayti, 196 offered and 113 sold, comprising pale set, 55*s.* to 61*s.*; light amber semi-liquid, 50*s.*; light to dark amber liquid, 51*s.* down to 35*s.* per cwt.; 30 barrels had been sold privately. Four barrels new crop pale set Trinidad sold at 67*s.* per cwt.

IPECACUANHA.—Matto Grosso sold at very irregular but lower prices. A bale of good stout sold at 7*s.* 6*d.*, but four bales of fair to good bright sold at 6*s.* to 6*s.* 1*d.*, and a bale of water-damaged realised 5*s.* 4*d.* per lb. In another instance 7*s.* 6*d.* was asked for nine bales. Twelve bales Minas were limited at 7*s.* per lb., no bids being made.

KOLA.—Fair bright Ceylon halves were obtainable at

from 3½*d.* to 4*d.* Nine bales of sea-damaged sold at 3*d.* per lb. without reserve.

LIQUORICE JUICE.—Two cases sticks (in prize, Careno brand) sold at 135*s.* per cwt.; a further seven cases were available.

MUSK.—Two bottles Assam grain sold at 70*s.* per oz. net.

MYRRH.—Neglected, with good partly blocky Aden sorts offering at 14*l.* per cwt. down to 11*l.* and 12*l.* Ordinary mixed partly blocky Somali sorts were held at from 9*l.* 10*s.* to 10*l.*, and dark pickings at 8*l.* per cwt.

OLIBANUM.—Fair drop was obtainable at 130*s.* per cwt., small drop at 120*s.*, and siftings at 85*s.*

ORANGE PEEL sold cheaply, 42 cases and 8 barrels ordinary to good thin so-called Maltese strip being disposed of at from 4*d.* up to 5½*d.* per lb.; 15 cases of thin strip of medium quality sold at 4*d.* per lb.

ORRIS.—A lot of forty-six bags fair Florentine sorts was bought in at 42*s.* 6*d.* per cwt. Five bags fair Florentine sorts sold at 37*s.* 6*d.* per cwt.

PETITGRAIN OIL.—Five cases of Paraguayan (35.6 per cent. esters as linalyl acetate) were bought in at 10*s.* per lb.

RHATANY ROOT.—A single bale of chunky sold without reserve at 2*d.* per lb.

RHUBARB was cheaper. The sales included two cases small, round, egg-shape Shensi, with three-quarter palish pinky fracture at 4*s.* 10*d.*, and two cases, small to medium flat Shensi, at 4*s.* 6*d.* Four cases small to medium, round, rough High-dried, with three-quarters fair pinky fracture sold at 2*s.* 3*d.* per lb. subject.

SAGE LEAVES.—A lot of 185 bales fair slightly stalky Dalmatian sold cheaply without reserve at from 10*s.* to 12*s.* per cwt. Private value is 20*s.* to 25*s.*

SARSAPARILLA.—Grey Jamaica opened cheaper, seven bales selling at from 1*s.* 4*d.* to 1*s.* 5*d.* per lb. and sea-damaged at 1*s.* 3*d.*, all subject to sellers' approval. Subsequently a further 8 bales of good grey realised 2*s.* to 2*s.* 1*d.* per lb. Fair red Native was held at 1*s.* 9*d.*, yellow and red mixed at 1*s.* 6*d.*, and for 4 bales common dull 1*s.* 4*d.* was paid. Five bales Mexican were held at 2*s.* 6*d.* per lb.

SENNA met with a slight demand only; 24 bales Tinnevely pods sold at from 3*d.* to 3½*d.* for dark, part flimsy, to fair. Practically no leaf sold; for inferior small yellowish 3*d.* per lb. was wanted, 3½*d.* to 4*d.* for ordinary small, and 5*d.* to 5½*d.* for medium of poor colour. Towards the close of the auction 40 bales of dark part flimsy ullaged Mecca pods sold at 2*d.* per lb.

SQUILL.—Five bags of fair palish sold at 30*s.* per cwt., subject to sellers' approval.

TAMARINDS.—A lot of 210 casks fair East Indian was bought in at 8*s.* 6*d.* per cwt., and 10 casks at 10*s.*; 47 bales fair black were also retired at 10*s.* Good West Indian are selling privately at 32*s.* 6*d.* per cwt.

TONKA BEANS.—Two puncheons good frosted Angostura were limited at 4*s.* 6*d.* per lb.

TRAGACANTH.—Four bags hog sold at 100*s.* per cwt.

WAX, BEES'.—Practically all the Jamaica offered had been sold privately. Dull bleached Calcutta was held at 7*l.* 10*s.*, unbleached at 5*l.* Twenty bags of fair brown Mozambique block were limited at 85*s.*, 17 bags fair Beladi block at 7*l.*, 16 packages Chilian at 7*l.* 5*s.*, and 20 bags fair Abyssinian block at 80*s.* per cwt.

Hamburg Drug and Chemical Markets

Present conditions, only indirectly connected with the drug trade, impel a leading Hamburg wholesale drug house to quote poetry in its market report dated September 1, quite apart from leaving it an open question whether Mr. Lloyd George or M. Briand in its conception of "modern Jupiter." "Modern Jupiter" recently failed to agree with his vassal gods in Paris, regarding the allocation of further portions of our Fatherland. It is useless, powerless as we are, to rebel against these so-called gods, but the present-day great ones of the earth refuse to recognise, in their delirium of joy, that they are artificially putting back the hand of the clock of the world's history. Our poet Körner says: "Virtue is difficult to display when happiness reigns; unhappiness provides the soil for nobleness to ripen, and that is the chosen ground for human greatness." When the Almighty created the world He decided that as they

were sown so should the wheat and the tares, love and hatred, grow. Wheat can only ripen on cultivated soil, but tares and hatred grow on all kinds of soil and in all countries. Who sow tares and hatred will reap a rich harvest, as they grow luxuriantly. If decisions arrived at by the Allies are to continue to be the governing laws of the universe, a disaster will result which will engulf the whole world; on the other hand, German Michael, with his water-blue, dreamy eyes, may arouse himself and recall the words of Schiller: "No, a tyrant's power has limits; when the oppressed fails to find justice anywhere, when the burden becomes unbearable, then with faith and courage he will appeal to heaven and bring down his eternal rights, which are unchanged in keeping there, and unalienable, as the stars themselves."

In the drug market the general tendency is very firm; the following prices are quoted in marks per kilo.:

ACETANILIDE.—Speculators had succeeded in accumulating large quantities—amounts sufficient to meet the requirements of Germany for the next twenty years. Owing to large foreign orders, almost all the available stocks have been cleared, and consequently the price has advanced to m.32, for export m.35.

ACETIC ACID (glacial 98 to 100 per cent.), in spite of its scarcity, has been neglected at m.15, and for export m.13.

AMMONIUM CHLORIDE.—First quality white, 98 to 100 per cent., is firmer, and spot stocks are low, while makers have orders on hand to supply for a long time ahead. The present price is m.7, and for export m.7.25. A slightly reddish quality is offered at m.5.50.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, was in good demand at m.40, and for export m.45.

BENZOIC ACID and **SODIUM BENZOATE** have advanced to m.40.

CAFFEINE (pure) has been sold in small amounts at m.625.

CAFFEINE SALTS are practically unchanged at m.350.

CALCIUM CARBONATE, precipitated light, is m.4.50, and for export m.4.75.

CITRIC ACID.—Manufacturers have advanced their prices; dealers offer below factory prices at m.76, and for export at m.78.

COUMARIN has advanced to m.325.

CREAM OF TARTAR (98 to 100 per cent.).—Recently large consignments have been exported, so that there are scarcely any spot stocks left. It is quoted at m.30; for export m.31.

GENTIAN has been practically neglected at m.14.

GLYCERIN.—The price has been considerably advanced by makers. Ph.G.V. quality is offered cheap at m.30 by dealers.

HELIOTROPINE has recently been in better demand at m.275, and for export m.300.

MENTHOL.—Larger purchases for stock have reacted on the price, which has advanced to m.850 for orders of a case or more, and m.890 for broken bulk.

MILK SUGAR, in consequence of the milk shortage, is offered only in limited amounts. Higher prices are expected to rule during the winter, and it is advisable to buy at the present price of m.24, and for export m.27.

MINT OIL.—Japanese remains firm at m.180, which has resulted in double rectified German oil advancing to m.200.

SACCHARIN.—For export, 110 grade in tablets of 0.07 gram, in boxes of 100 tablets (135 boxes=1 kilo.) is offered at m.85 per kilo.; 330 grade, in tablets, at m.175 per kilo.; 450 grade, crystals, in tins of $\frac{1}{2}$ or 1 kilo. net. or of 1 lb. (English), in cases of 50 or 100 kilos., or 100 lb. (English), at m.220 per kilo.; 550 grade, in powder, at m.250 per kilo.

SALICYLIC ACID advanced to m.37 for home use, but for export it can still be had for m.35.

SANDALWOOD OIL.—East Indian has been neglected at m.1.400, and the same applies to West Indian at m.425.

SODIUM BICARBONATE.—Several hundred truckloads have been sold, which has naturally resulted in an advance in price, since the present prices were below cost price owing to the high cost of freight, etc. It is offered in barrels of 400 kilos. at m.2 per kilo.; for export, in barrels of 50 kilos., at m.290, in barrels of 100 and 200 kilos., at m.275.

SODIUM SALICYLATE.—Owing to scanty supplies and slight demand is unchanged at m.55.

STAR ANISE is in slight demand at m.27.

STAR ANISE OIL is slightly higher at m.90, and for export m.85.

STRAMONIUM LEAVES.—New crop is offered at m.18.

TARTARIC ACID.—Makers have advanced their prices. Large orders from abroad, particularly from the U.S., have caused the price to become very firm at m.38 for powder, granular, and crystals; for export, m.39.

VANILLIN.—Higher prices for cloves and for oil of cloves have resulted in further substantial advances in price by makers, and the syndicate now quotes m.1,350. Dealers offer at m.1,300, and for export m.1,250.

French Lavender Fair

In view of the success which attended the first Lavender Fair, a second Fair for the exhibition of samples of essential oil of lavender has been arranged for October 1, 1921, to be held at Digne (Basses-Alpes). At the first Fair the various groups of distillers which participated represented an output of over 10,000 kilos. of lavender oil, and it is expected that at the forthcoming Fair the majority of distillers of essential oils, not only of the department of the Basses-Alpes, but of the entire South-Eastern region, will be represented. According to information already received, most distillers are awaiting the opening of the Fair before offering their samples, as the prices will be fixed on the date of the holding of the Fair, which promises to become the centre of the trade in this product. Owing to the publicity given abroad, the Fair is likely to be attended by representatives from the leading foreign houses. In order to be sure of securing hotel accommodation, the Commissaire-Général of the Fair requests that intending visitors should communicate their intention of being present in sufficient time to enable him to retain rooms.

Bay Oil in Montserrat

OWING to the high import duties that have recently been imposed, considerable interest is being taken in Barbados and elsewhere in the production of hay oil. Mr. Robson, Curator, Montserrat, has done pioneer work on the cultivation of the bay tree and distillation of the oil, and his annual report for 1919-20, recently published, states that the results from the bay tree experiment plot in 1919 are, from the point of view of total yield of leaves and oil, the most successful yet obtained in the history of the plot. The reaping of the leaves from the plot for distillation was commenced in January 1911, two and a-half years from planting, and the reaping and distillation of the crop have been systematically followed up since that time. A table is given in the report showing the quantity of leaves reaped in each season, the actual yield of oil obtained for the nine years, together with the estimated gross value of the oil, which in 1919 was 60% per acre. Although fifty-two distillations were made of leaves reaped from the plot, it was not possible to deal in the still at the Botanic Station with the total quantity reaped, and therefore 1,255 lb. were sold to a distiller at the close of the year. The plot remained in a very vigorous condition at the close of the year, and several thousands of pounds of leaves were left unreaped on account of the inability to deal with them. Once the trees are sufficiently developed actually to cover the ground occupied, less and less cultivation is required, and the necessary cultivation is reduced to a minimum. During the year under review fifty-two distillations of leaves were made, and samples of the oil from each distillation (100 c.c. each) were submitted to, and examined at, the Government Laboratory at Antigua. The details in connection with each distillation are given in Mr. Robson's report. The average yield of oil per 100 lb. of green leaves in this season on the whole of the distillations is 17.3 oz., compared with an average of 18.6 per 100 lb. in the previous year. Reference to the table giving the results in 1919 again shows considerable fluctuations in the amount of oil per 100 lb. leaves, even within the same month, and no very satisfactory explanation can be given for these varying results. The methods of distillation carried on over the last three years have been uniform; the leaves were reaped from the plot one day and distilled the following day. The average yield of oil for the three years is 17.9 oz. per 100 lb. fresh leaves, and the best average results for yield have been obtained in the early months of the year—i.e., between January and July. This, however, may be entirely due to the effect of the usual dry weather at this time of the year, and to the leaves having a reduced water content as the result of evaporation. As the result of further experiments conducted in 1920, which will be referred to in a later report, this explanation appears to have been definitely established. On the question of the quality of the oil as indicated by the specific gravity and the phenol content, between which a certain correlation is noticed, the best results in 1917 are seen to be in March, April, and May; in 1918, in June and July; and in 1919, in the month of October. Throughout the work conducted on the experiment plot it has been the practice to include only in the growth collected for distillation what was seen to be fully developed. There is a probable objection to the collection of the very oldest leaves from the trees, though further research is necessary in this direction. The distillation performed on October 24, 1919, consisted of the oldest leaves, and many of the leaves distilled had probably been on the trees for at least two years. The results of this particular distillation were disappointing in every respect.

Russia's Medical Wants

THE All-Russian Co-operative Society, Ltd. (Arcos), Soviet House, 43-53 Moorgate Street, London, E.C. 3, have supplied us with the following information regarding Russia's requirements and output of pharmaceutical products, from which it appears that Russia is estimated to need every year about 9,500 tons of medical supplies. Statistics are given below showing that the production of these supplies in Russia, although rising in volume, can only provide from 15 to 20 per cent. of the total needed :

	Estimated requirements	Russian programme	Imports needed, about
	Kilos.	Kilos.	Kilos.
Pure chemicals ...	2,925,000	321,953	2,600,000
Pharmaceutical compounds ...	4,933,000	912,595	4,000,000
Disinfectants ...	1,815,000	362,953	1,450,000

If the programme is fulfilled, 11 per cent. of the need for chemicals will be satisfied, 18.5 per cent. of the amount of pharmaceutical supplies required, and 20 per cent. of the disinfectants. It will be necessary, therefore, for Russia to import anything up to 8,000 tons of drugs and disinfectants. Prior to the war Russia used to import almost all the chemicals needed for medical purposes. A certain amount of production was hastily organised during the war. The following figures show the progress achieved during the civil war and the first half of 1921. The figures for 1921 refer only to the group of laboratories and factories near Moscow, which, according to the programme, should produce 58 per cent. of the total :

	1919		1920		First half 1921 (Moscow area only)
	First half	Second half	First half	Second half	
	Kilos.	Kilos.	Kilos.	Kilos.	Kilos.
Pure chemicals	35,335	39,732	40,334	31,592	69,630
Pharmaceutical compounds ...	115,552	167,712	158,410	242,765	289,701
Disinfectants ...	—	—	149,741	70,758	132,232

In the Moscow area thirteen out of the fourteen big chemical works are in operation. Their production is given below; the diminution during May was due to the Easter holidays falling within this month :

	Production		Per cent. of programme	
	April Kilos.	May Kilos.	April Kilos.	May Kilos.
Silver salts ...	111	149	55	25
Mercury compounds ...	326	160	40	20
Inorganic ferrous compounds ...	1,211	1,463	194	234
Bromides and iodine compounds ...	54	72	90	118
Other inorganic products ...	6,918	5,517	70	56
Alkaloids ...	14	15	16	18
Salicylates ...	3,090	2,311	134	100
Organic ferrous compounds ...	32	32	40	40
Other organic products	1,460	967	67	44
Neo-salvarsan (subst.)	7	6	175	150
Concentrated extracts	3,129	3,044	158	155
Concentrated solutions (in water and alcohol)	16,442	16,557	156	158
Powders ...	5,396	1,157	125	27
Ointments ...	12,576	5,335	268	113
Oils ...	101	8	7	0.5
Disinfectants ...	20,663	15,698	140	106
Prepared drugs in pills, capsules, etc. ...	2,853,945 (doses)	2,970,062 (doses)	208	217
Plasters ...	2,050	2,439	178	212
Vaseline ...	5,844	4,186	88	63
Paraffin paper ...	397	230	99	58
	(reams)	(reams)		
Mustard plasters ...	63,000 (plasters)	44,000 (plasters)	157	111
Photographic plates ...	146 (dozen)	423 (dozen)	2	7



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Prescription Pricing

SIR,—Say what one will, the marking of prescriptions is a subject which has to be tackled, and that very soon. More friction is caused in chemists' shops, particularly during the "season," by prescription-marking than all the other quibbles about prices put together. A customer says : "I can get this made up in London for 1s. 6d. ; your price is 2s. 6d." Customer may be an Ananias, but you have no means of checking his or her (generally her) statement. A discussion, sometimes heated, follows. Customer leaves in a hurry, enabling you to give more time to a man to whom you sell a sponge in a few minutes and make half-a-crown profit. The prescription customer, however, is now cornered. You have rightly taken the script round the back, worked it out, and priced it with the "Bishopgate" mark, and, knowing the loyalty of your *confrères*, you know the price will be 2s. 6d. wherever she goes in the same town. "Can't be done," you say; but it is being done, and that very successfully here as a rule. Difficulties—of course there are difficulties—but difficulties were made to be overcome. The following prescription was priced at 1s. 3d. by a company chemist :

Syr. chloral. hydrat. ...	5iss.
Ext. piscidia liq. ...	5vj.
Sodii bromidi ...	3iij.
Tr. hyoseyami ...	5j.
Tr. cannabis ind. ...	5ij.
Aq. camph. ad ...	5viij.

Our price was 5s., and the customer paid it without a murmur.

Yours faithfully,

Eastbourne.

ARTHUR MILLS.

SIR,—Now that the Dangerous Drugs Act Regulations are in force we shall have to put up with them. I should like to know the attitude the majority of chemists are taking up regarding a dispensing-fee for prescriptions which come within the Act. I suggest that chemists make an extra fee of at least 6d. over and above our ordinary rates for dispensing such prescriptions. This would be a very small fee, considering the amount of extra clerical work and petty annoyance which the working of the Regulations is going to cause us. I should welcome the views of other chemists on this matter.

Yours faithfully,

G. D. JOHNS.

Indian Drugs in Dysentery and Diarrhoea

SIR,—In diarrhoea, and in dysentery in the stage where diarrhoea occurs, there is one Indian drug that certainly does not appear to be recognised at its true value—that is spogel, or ispaghol seed, *Plantago ovata*. This seed, when placed in water, speedily develops a thick coating of mucilage, and it is this peculiarity that renders it especially valuable whenever the internal lining of the alimentary canal is in an irritated or ulcerated condition. When gum arabic or similar mucilages are given, they are speedily diluted; but these seeds act as a protecting and demulcent covering wherever they adhere, and have besides a slightly astringent effect. The astringency is more marked in the seeds of our common *Plantago major*, which is highly esteemed in the treatment of dysentery in India, according to Dr. W. Dymock ("Mat. Med. W. India," second edition, p. 650). I have frequently been asked by retired Indian officers where spogel seed can be procured in this country, and some time ago an inquiry for it came from the Curragh camp in Ireland, from someone who had received benefit from it in India. Many years ago a professor of botany at one of our largest hospitals asked me if I could recommend a remedy for chronic diarrhoea of six months' standing, saying that his housekeeper had failed to get it cured at the hospital.

I gave him an ounce of the seeds, to be taken in teaspoonful doses in water, and heard subsequently that the seeds stopped the diarrhoea completely. Of other Indian drugs, *Holarrhena antidysenterica* has a good reputation for the cure of dysentery, but it is not easy to get the genuine bark, as the inactive bark of *Wrightia tinctoria* is often substituted for it.

Yours faithfully,
E. M. HOLMES.

Examinations and Efficiency

SIR,—One could not have a greater compliment than to be compared to Mr. Gladstone, so I cannot fail to appreciate your correspondent, "Jay Mack's," lengthy but interesting criticism of my letter (*C. & D.*, August 27, p. 64). May I remind "Jay Mack" that after twenty-eight years he has had ample opportunity to forget every iota of his college syllabus, whatever it may have contained? To reply to the points in detail:

1. My experience goes to prove that the man who cannot pass the test of examinations cannot pass the test of practice. I should answer the question that the reason why there are so many unqualified dental practitioners is that dentistry is, to a very large extent, a mechanical art and not a science. It is possible for any man capable of becoming—shall we say?—a good watchmaker or jeweller, to become quite an efficient mechanical dentist.

2. Your correspondent has no experience of medical examinations, or he would not imagine that medical students are never trapped by tricky points. It is not accurate to say that they have always been allowed to take one subject at a time. As a matter of fact, when I graduated it was absolutely essential to pass all of the subjects of each examination at one sitting, and such was until recently the practice of some of the Universities whose degrees are most sought after. The medical student has only had a five-years' course for comparatively few years, and in many instances has nothing whatever corresponding to a tutor in his professional training. The course of lectures on medical jurisprudence contains very little with regard to their conduct or behaviour in Court; in fact, the faulty manner of giving evidence by medical men is a by-word in the Courts. It is very complimentary to the medical schools, but very wide of the actual facts, to state that students enter a medical college to obtain social position.

3. The statutory protection exists and cannot be evaded, and "Jay Mack" surely underestimates its commercial value; but I quite agree that men who fail to continue to study after passing their Qualifying examination will surely go to the wall. A medical graduate usually spends at least a couple of years in holding unpaid or practically unpaid appointments to qualify himself for the responsibilities of practice.

4. The man who cannot pass a *viva-voce* examination deserves to be ploughed, as it is meant as a test of the quickness of his "wits," and the man who cannot deal with a question fired at him across the examination table cannot do much in a difficult situation in his professional work, or with a conundrum proposed by a client.

No examination can give efficiency, but an examination can be a test of inefficiency. I have had experience of nine different types of examiners, and I never yet discovered one who was really and sincerely out to plough candidates. It is not his job to do so. He is there to safeguard the interests of his examining body so far as he can. To say that the men who attain the position of examiners in the Pharmaceutical Society or any other corporation lack brains is, to say the least of it, very unfair, as their examining bodies have appointed them because they are men of light and leading in the special branch in which they examine. The curriculum suggested by "Jay Mack" will not bear investigation. It would require a host of professors and clerks to carry out the clerical work alone. The correction of the essays and the conduct of visits to works and suchlike would involve an enormous amount of expense. It is quite obvious that no society could embark on a mandarin test of this

description. The General Medical Council have quite recently turned down for some such reasons a proposal for marking medical students' examinations on reports submitted by their teachers. I still maintain that "human intelligence cannot devise a better test of efficiency than our examination system."

Yours faithfully,
AN EXAMINATION VETERAN (4/9).

Photographic Developing Business

SIR,—While reading Mr. Herbert's letter (*C. & D.*, September 3, p. 69) with interest, and especially his remarks on fixation, I could have wished that he had given the strength of the solution of hypo, which he terms very dilute. The process of fixing really takes place in two stages, a double salt of silver and sodium hyposulphite [$\text{Ag}_2\text{Na}(\text{S}_2\text{O}_3)_3$] being formed first, and this double salt is then readily soluble in hypo solution. But on turning up the literature of the subject, I find that to perform this double process properly the solution must be of a certain strength—namely, about 20 per cent., which is the strength recommended by the plate manufacturers, or 4 oz. to the pint; if the percentage is below 15, there is formed an insoluble double salt (AgNaS_2O_3), and if, on the other hand, it is over 25 per cent., silver hyposulphite ($\text{Ag}_2\text{S}_2\text{O}_3$) will be produced, which breaks up into sulphuric acid and silver sulphide with subsequent liberation of free sulphur from the hypo solution, so that if the solution should be too dilute it is possible to defeat the object of the bath by forming an insoluble salt which cannot be removed.

Yours faithfully,
D. V. L. (3/9).

Dangerous Drugs Act Regulations

SIR,—As the Dangerous Drugs Act Regulations forbid any unauthorised person to be in possession of the drugs included in the Act, the retail sales of these drugs are entirely stopped for the town and suburban chemist who has no dealings with doctors, farmers, and others who either are, or can be, authorised to obtain them. The Regulations, therefore, so far as we are concerned, are narrowed down to prescription service only, and the pharmacist's first duty on being presented with a script ordering a dangerous drug is to turn to the *C. & D.* card and ascertain whether the amount prescribed brings the medicine within the Regulations or not. If it does so, his next step is to see if the name and address of patient, doctor, etc., are in order; as these are rarely provided at present (especially the patient's address in Insurance scripts, although a line is provided for it), the probabilities are that the omissions will invalidate a considerable number of scripts. If he is satisfied as to these details, then follows the crux of the whole matter: is he satisfied that the doctor's signature is genuine? Unless the signature is one that he is able to recognise from handling many prescriptions from the same doctor, he is unable to be so satisfied, for, presuming that he was involved in a trial connected with such a script, say from a doctor out of his locality or a West-End specialist, he could not swear that he recognised it and would be in an extremely awkward position in the hands of a clever counsel. It is easy to say that these details are laid down on account of possibilities and not probabilities, but it must not be forgotten that the Dangerous Drugs Act lays one open to criminal proceedings, with sentence of imprisonment at the end of them, and sooner or later there will be a case taken up, if only as an example, as was done under the Venereal Disease Act; and personally I have no wish to be the unlucky scapegoat for want of observance. I see that the Border Branch of the Scottish Federation recommend their members to add 3d. to the price of each medicine coming under the Dangerous Drugs Act as a remuneration for the extra clerical work involved, and it is a suggestion that I shall adopt. Another good idea is to be found in your advice to a correspondent to copy Insurance scripts into the ordinary prescription-book so as to provide an entry for cross-reference.

Yours faithfully,
TOWN CHEMIST (5/3).

Legal Queries

J. E. C. (20/19).—The Proprietary Medicines Bill was withdrawn by the Government, and is not likely to be introduced again until some of the arrears of legislation are overtaken.

G. L. G. (2/9).—Ext. papav., B.P. '85, contains approximately 1 per cent. of morphine, so that 72 oz. of a cough-mixture containing 3j. of extract would be outside the Dangerous Drugs Act.

Metal Polish (25/8).—Oxalic acid is a poison included in Part II. of the Poisons Schedule of the Poisons and Pharmacy Act, 1908. The sale of the acid, or preparations containing it, is confined to registered chemists.

I. R. (3/9).—A qualified chemist acting as manager for an unqualified person cannot "cover" the proprietor for the sale of "known, admitted and approved" remedies if the proprietor is not himself qualified to sell them.

M. T. (1/9).—"Bronchial mixture" is a mixture for the bronchial tubes, and as this is a body name and not the name of an ailment such title *per se* does not render liable to medicine-stamp duty the preparation to which it is attached.

Rojam (6/9).—The lemonade-powder prosecution (*C. & D.*, September 3, p. 46) was not decided under the Sale of Food and Drugs Acts but under the Merchandise Marks Act, the statement to which exception was taken being "made entirely from fresh lemons."

W. W. (27/15).—Prescriptions written before September 1, and containing such proportions of "dangerous" drugs that they are within the Dangerous Drugs Act, cannot be repeated without a fresh prescription from the doctor—not an easy matter in many cases.

E. H. S. B. (31/8).—Under the Pharmacy Act prescriptions containing scheduled poisons must be entered in the prescription-book or filed, as is often done with Insurance prescriptions. It is not necessary to do both, but we recommend the prescription-book entry as the best record.

W. J. H. (5/9).—Morphine suppositories of B.P. strength (about $\frac{1}{4}$ gr. in 15 grains), and stronger suppositories, come within the Dangerous Drugs Act, and can only be sold on prescription. Morphine hydrochloride up to 1½ gr. in 1 oz. can be sold retail without infringing the Dangerous Drugs Act.

W. R. N. (2/9).—The unqualified veterinary practitioner should apply to the Home Office for an authorisation to obtain tr. opii, and if he obtains this you can supply him. The Home Office will, however, probably suggest that the practitioner obtain tr. opii diluted so as to bring it outside the Dangerous Drugs Act.

W. H. R. (5/9).—It does not appear to be necessary that orders for "dangerous" drugs taken by commercial travellers should be in writing. The wholesale house can, however, only supply the drugs to authorised persons (such as chemists), or persons otherwise licensed, and the necessary entry will need to be made in the sales register.

J. M. H. (29/8).—Your qualification of apothecaries' assistant is one of those recognised by the Minister of Health, and you will probably be allowed to carry out the Regulations laid down in Schedule I. of the Hospital Regulations (*C. & D.*, August 27, p. 59). If you are in doubt regarding your position you should write, giving full particulars, to the Under-Secretary, the Home Office, Whitehall, London, S.W.

H. J. (3/9).—The full terms of the Farmers' Permits for Laudanum are given in the *C. & D.*, August 27, p. 58; but, as you state, the effect is somewhat neutralised by the instructions issued by the Home Office to the chief officers of police, that permits are only to be given to farmers in a large way of business; smaller users are to purchase their laudanum diluted below the strength recognised in the Dangerous Drugs Act.

F. J. M. (31/8) and *E. D. O.* (1/9).—It is not necessary to enter in the Dangerous Drugs Act register those preparations sold which contain a smaller proportion of "dangerous" drugs than that laid down in the Act. Under Regulation 9 (g), however, the Secretary of State has power to require information in regard to stocks and all transactions effected in the drugs "for the purpose of seeing that the provisions of the Act are observed."

D. D. A. (7/9).—(1) Arsenical fly-papers are in Part II. of the Poisons Schedule of the Poisons and Pharmacy Act, the reason being that they cannot be coloured in the manner contemplated by the Arsenic Act, and they are covered by the "omnibus" paragraph at the end of the Poisons Schedule. (2) Paregoric, chlorodyne '85, and linseed, liquorice and chlorodyne lozenges being outside the Dangerous Drugs Act can be sold retail by chemists as hitherto.

Ph.C. (6/9).—The Provident Dispensary to which you supply drugs is presumably adopting one of the hospital schemes which were given in the *C. & D.*, August 27, p. 59. In this case, as the dispenser is not a pharmacist, one of the medical practitioners is required to give written orders for "dangerous" drugs and the dispenser has to keep records. You on your part will enter the drugs on the sale or supplies side of your Register kept in conformity with the Dangerous Drugs Act Regulations.

Viator (6/9).—When orders for "dangerous" drugs are given by doctors' dispensers, the dispensers are acting as servants of the medical practitioner, so that the drugs are being supplied to authorised persons. No written order is required by the commercial traveller, but the transaction is recorded by the wholesale house in the Register of Dangerous Drugs. If "dangerous" drugs are sent for to a wholesale house a written order must be given, and the supplier must be satisfied that it is genuine.

A. W. (1/9) has in his dispensary a part-time lady assistant. Her salary is 52*l.* a year paid monthly, and from each payment a deduction is made in respect of unemployment insurance contributions. In the event of unemployment would the assistant receive any benefit? [Assuming that the ordinary qualifying conditions were satisfied the assistant would be eligible for unemployment insurance benefit at the rate of 12*s.* a week, while unemployed, for a maximum period in any one year of twenty-six weeks.]

C. S. & Co. (5/9).—The principle upon which the Dangerous Drugs Act Card was drawn up was that chemists should not "sail too near the wind" in dealing in "dangerous" drugs. In the case of linctus acetomorph., we consider that a preparation containing 0.1 per cent. of heroin hydrochloride is too near the borderline to be safe, unless, as often happens, the specific gravity of the linctus is high. As you are aware, the difference between the molecular weight of diamorphine (base) and the hydrochloride is very small. It was these facts that suggested the note on the card regarding the sp. gr. of linctuses, etc.

E. S. D. (5/9).—You need to grasp the fact that the feature of the Dangerous Drugs Act is that a drug is not "dangerous" in the sense of the Act if it contains less than the proportions of cocaine, diamorphine, and morphine mentioned in the Acts. Dilutions of tr. opii below 0.2 per cent. are outside the Act, and may be sold by chemists in conformity with the Pharmacy Acts. The Home Office suggests that, as this can be done, the sale of the drugs is not prohibited, and that small farmers and other users can purchase their laudanum diluted. The instructions to the police are that on this account laudanum permits need only be issued to farmers in a very large way of business.

H. B. (210/48).—(1) You will see from the Dangerous Drugs Act Card that Insurance prescriptions containing "dangerous" drugs in the proportions covered by the Act will need special precautions in dispensing. One of the chief difficulties is that many Insurance prescriptions do not give the address of the patient. We recommend

that prescriptions coming within the Dangerous Drugs Act Regulations should be entered in the prescription-book, and a reference made in the index-book or other record which the chemist keeps. (2) Troch. morph. et ipecac. do not usually come within the Act if, as we find, the weight of each lozenge averages 20 grains. The compressed form, usually smaller, may come within the Act.

Inquirer (5/9) is employed by a company as manager of a branch shop in a country town under an agreement which includes a clause providing that, for a period of three years after the termination of the agreement, he shall not be connected with the business of a chemist and druggist within a radius of three miles of any place where he may have been employed by the company within the preceding three years. Do we consider that the restriction is enforceable? [It is impossible for us to say what view a Court would take as to the agreement; but having regard to the fact that the restraint is limited both as regards time and area it is, in our opinion, reasonable, and therefore enforceable. In the event of a breach of the agreement "*Inquirer*" might be ordered to pay the full damages mentioned in the agreement; but if the Court were satisfied that that amount was excessive an inquiry as to damages might be directed, in which case a smaller sum could be awarded as damages.]

House (28/8) bought a leasehold house about two years ago, the unexpired term of the lease being sixty-five years. Recently the foundations on two sides of the house have sunk, which will necessitate expensive structural alterations. Has "*House*" a claim against the previous owner of the premises for compensation; and is he entitled to any allowance in respect of income-tax on account of the cost of carrying out the repairs? [In our opinion "*House*" has no claim against the seller of the property unless there was an express warranty that the foundations were in sound condition. "*House*" is not entitled to treat the expense of repairing the foundations as a deduction for income-tax purposes, but he will be permitted in future years to include that expenditure in arriving at the preceding five years' average of "the cost to him of maintenance, repairs, insurance, and management." If that average exceeds the statutory one-sixth part of the annual value of the property he will be able to claim repayment of the amount of the tax on the excess.]

H. J. F. (207/3).—(1) Some of the daily Press in dealing last week with the Home Office notice regarding the coming in force of the Dangerous Drugs Act Regulations fell into the error of stating that the retail sale of paregoric is prohibited. The proportion of morphine in tr. camph. co. is so small that it is quite outside the Dangerous Drugs Act. (2) In regard to the "safety" limit of tr. opii in a mixture we give this as 95m. in 3j. In fixing this quantity the necessity for keeping well clear of the risk of bringing a dilution within the Act and of fixing a round number were kept in mind. Our decision is one which most people will recognise as wise, but others may prefer to employ the quantity calculated to the extreme limit. (3) The question of the composition of "All Fours" will need to be settled definitely. As usually sold the preparation is within the Dangerous Drugs Act, but if the proportion of tr. opii is reduced or the bulk increased by using sp. menth. pip. or sp. anisi the difficulty may be overcome. We should be glad to have suggestions from our readers on this point.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. R. (31/8).—BLACK DYE.—The proportions used in a gallon of water are logwood 8 oz. (well boil and strain), iron sulphate 1 oz., but the quantities vary for particular purposes.

T. B. (4/9).—Gum acacia is not soluble in castor oil, but by using water to dissolve the gum the oil can be suspended or emulsified.

H. R. C. (27/8).—The specimen leaf you send is from a species of oak. These trees are very difficult to distinguish by the leaves alone, but, so far as it is possible to guess from the leaves alone, it is probably *Quercus Cerris*, a Turkey oak, the timber of which is prized by wheelwrights, coopers, turners, etc. The acorn cups have projecting narrow scales, giving it a prickly appearance, by which it is easily recognised from other oaks grown in this country.

J. G. (29/8).—CHINA-CEMENT.—The following is from "Pharmaceutical Formulas":

Russian isinglass, fine cut ...	3j.
Powdered glue ...	3j.
Distilled water ...	3j.
Salicylic acid ...	gr. x.

Put the isinglass and glue in a gallipot, add the salicylic acid and the water, pressing down the isinglass with a pestle until it is all soaked. Place the gallipot in a saucepan of water, bring to the boil, stirring until dissolved; then add

B.P. acetic acid ...	3j.
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Mix well, and pour into bottles.

J. D. & Co. (3/9).—BALL-ROOM FLOOR POLISH.—This is generally a mixture of powdered boric acid and hard paraffin in varying proportions. The following is a special formula:

Hard paraffin ...	1 lb.
Spermaceti ...	1 lb.
Boric acid ...	14 lb.
Lavender oil ...	1 dr.
Clove oil ...	5m

The first two ingredients are melted together and the boric acid stirred in. When the mass is cold it is reduced to powder or granules as desired. The perfume is added at the powdering stage.

L. & Co. (1/9).—TICKET-WRITING INK.—There are two varieties of these inks, the one consisting of concentrated writing ink in which gum acacia has been dissolved, and the other spirituous solutions prepared on the lines of straw-hat varnish. Sealing-wax dissolved in spirit is employed by some writers. The following is a formula for the spirituous kind:

Spirit black ...	3 oz.
Camphor ...	1 oz.
Garnet shellac ...	1 lb.
Spirit ...	1 gal.

Coloured aniline dyes (spirit soluble) may be used in place of the spirit black, and some prefer as a base an aqueous solution of shellac made by boiling together shellac 2 oz., borax 2 oz., water 20 oz., until solution takes place.

H. L. (26/8).—THROAT TABLETS.—The following is the formula for which you ask:

Tannic acid ...	½ oz.
Extract of krameria ...	2 oz.
Carbolic acid ...	½ oz.
Menthol ...	60 gr.
Liquid extract of liquorice ...	2 fl. oz.
Red gum ...	½ oz.
Sugar ...	4 lb.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," September 15, 1871

The Use of the Teeth

In a recent discussion at the Odontological Society, the notion was thrown out that the teeth have a higher office than that commonly assigned to them—namely, that of merely crushing or masticating the food. They are to be regarded as endowed with a tactile sense, a discriminating faculty, correspondent to that possessed by the muscles and nerves of the eye and ear. Teeth, it was remarked, have an extreme delicacy of discernment, both as to whether the objects comminuted be suitable as food, or such as will irritate the delicate lining of the oesophagus. How speedily do the teeth detect the smallest particle of cinder that has found its way into a freshly baked biscuit! And yet both are pulverised with much the same force and sound.

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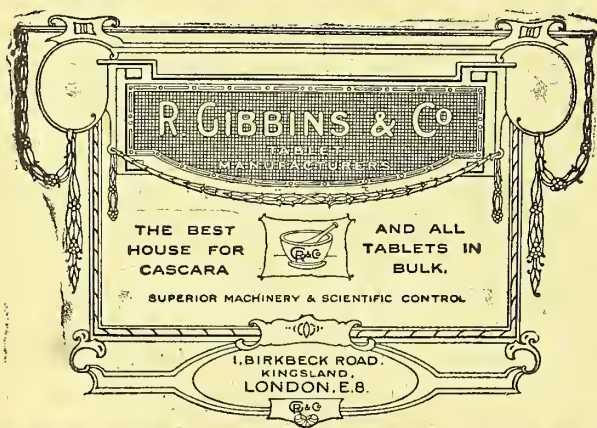
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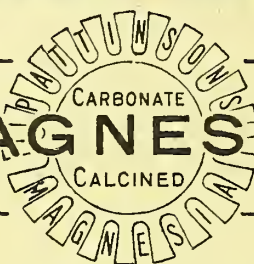
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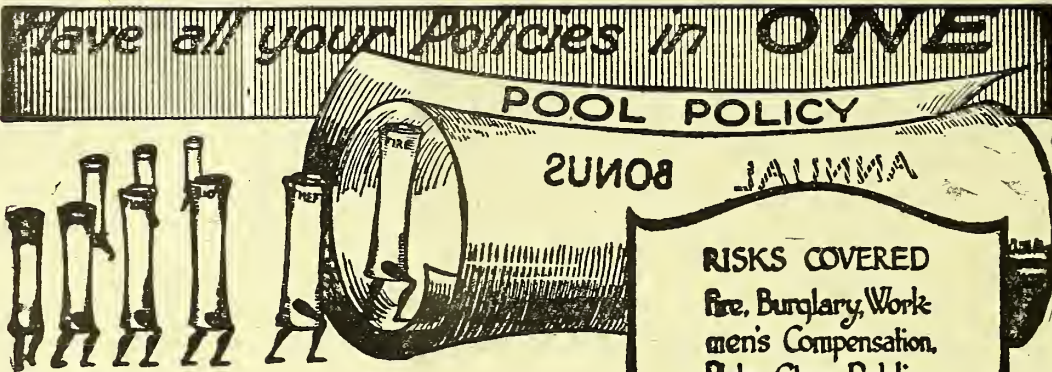
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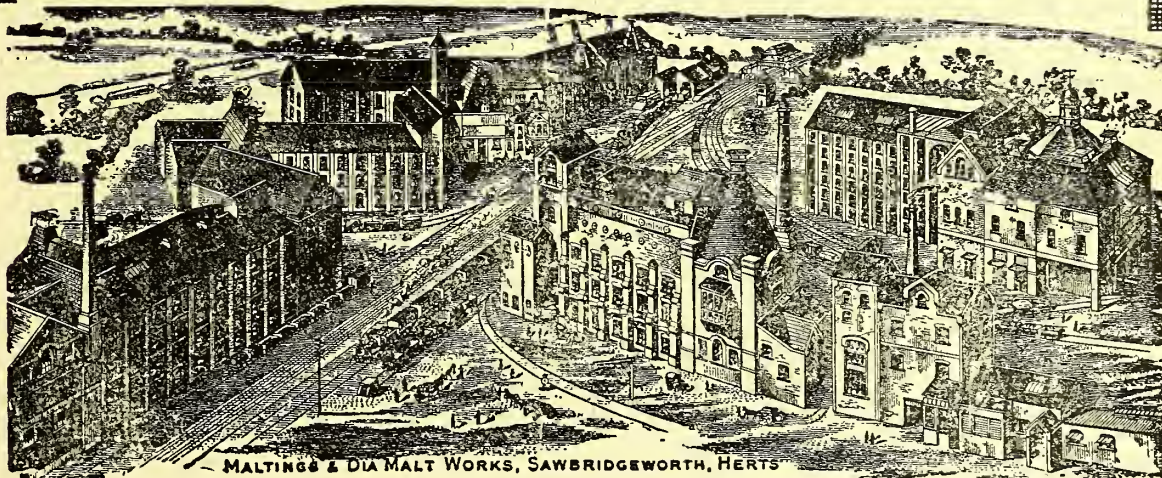
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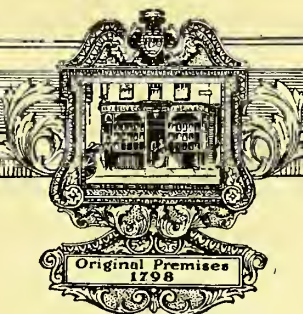
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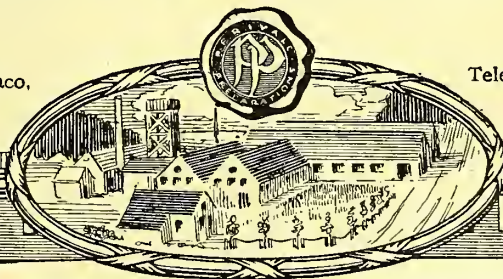
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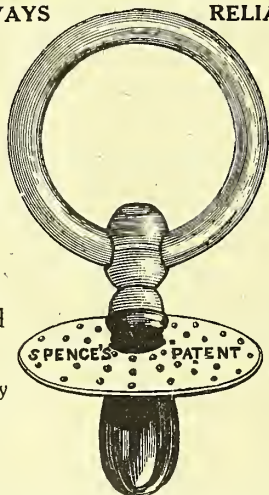
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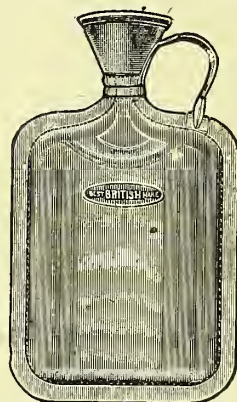
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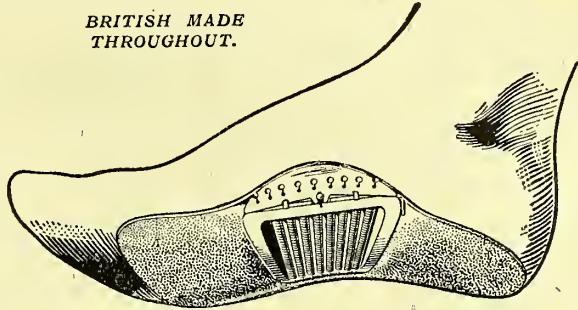
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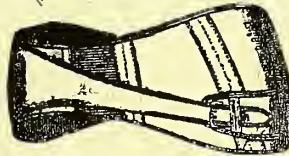
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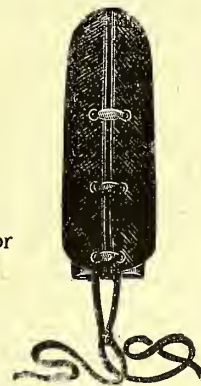
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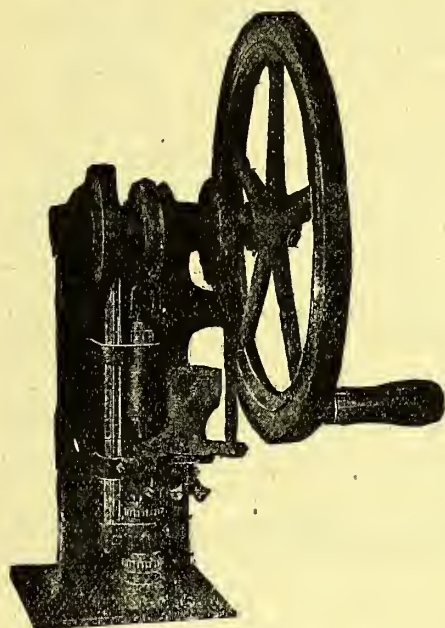
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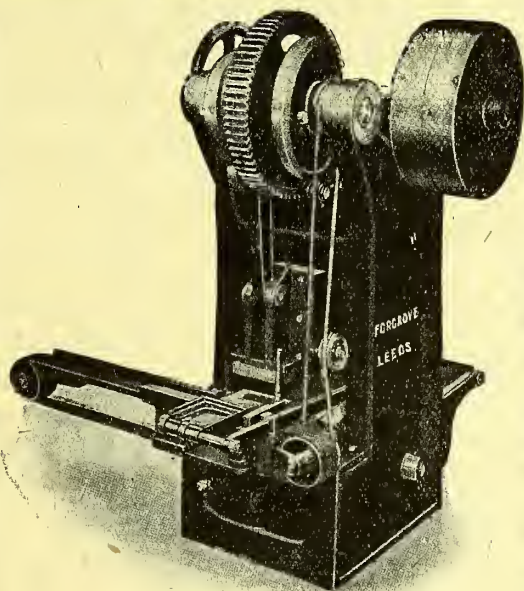
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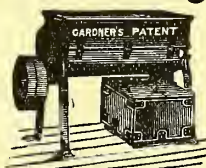


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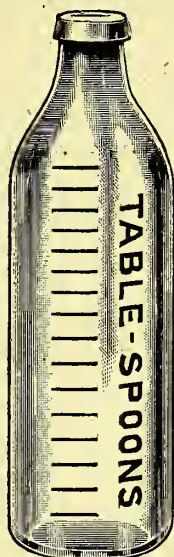
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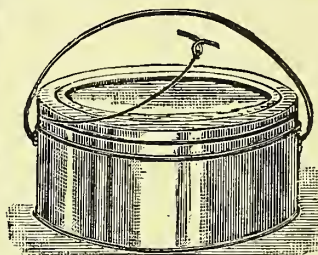
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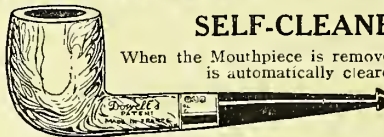
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SEPTEMBER 10, 1921

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WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

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2.—HUNTINGDONSHIRE.—Very nice old-established Country Business, with turnover about £1,200 per annum; well stocked and fitted pharmacy; price £1,000, which includes Freehold Property.

3.—LONDON, S.E.—Drug Stores, situated in very busy thoroughfare; returns about £1,500 per annum, which could be greatly increased by qualified ownership; scope for Dental, Optics, and N.H.I.; lock-up shop and parlour; held at inclusive rental of £78 per annum; price £1,350 or offer.

4.—LONDON, E.—General Retail and Dispensing; returns about £800 per annum, at good profits; premises held on long lease at £30 per annum, rising in 1922 to £42 per annum; part dwelling accommodation let off at £39 per annum; price £750 or near offer.

5.—CARMARTHENSHIRE.—Good-class Country Cash Dispensing, and General Retail, in pleasant town; established 100 years; returns average £1,800 per annum; very nicely fitted and well-stocked shop and excellent house attached; price about £2,500, which includes freehold property.

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Recommended by The British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses, Valuers to the Association of Manufacturing Chemists.

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**EXPERT CHEMISTS' VALUER, STOCK-
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**CONTRACTS FOR THE SUPPLY OF GROCERIES, ETC., TO
THE ISOLATION HOSPITAL (INCLUDING SANATORIUM).**

Persons desirous of Contracting with the above Committee for the supply of GROCERIES, MEAT, BREAD, DRUGS, COKE, COAL, HORSE CORN, HAY, and STRAW to their Hospitals at Brierley Common, for the three months commencing 1st October, 1921, are requested to deliver sealed Tenders at the office of the above Committee in Hemsworth on or before Saturday, the 17th September, 1921, at 10 o'clock a.m.

The above articles will be required to be delivered at such times and in such quantities at the Hospital as the Committee or any properly authorised officer may from time to time direct.

Forms of Tender may be had on application to the Clerk. The Committee do not bind themselves to accept the lowest or any Tender.

The accounts will be paid quarterly.

By Order of the Committee,

EDMUND A. WINDER,

Clerk of the Committee.

Hemsworth, near Wakefield,
August 1921.

PARTNERSHIPS.

**6s. for 50 words or less; 6d. for every additional 10 words
or less, prepaid.**

CHEMIST, 36, seeks Partnership in an up-to-date business, preferably Western Counties; capital available up to £1,000; at present studying for F.S.M.C.; banker's reference given and required. Apply 206/9, Office of this Paper.

BUSINESSES WANTED.

5s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LETTERING OR DISTRICT.—Business required, doing turnover of £2,000 to £4,000; smaller business considered if scope; replies treated in strict confidence; references exchanged. Rutland" (196/6), Office of this Paper.

ADVERTISER desires to purchase a genuine Retail Business in a good country town with a turnover of £2,500 (or over); wholesale and bank references given; cash available for prompt settlement. Kindly communicate (in confidence) with "Chemist," c/o Messrs. Wright, Layman & Umney, Ltd., 44 to 50 Southwark Street, London, S.E. 1.

ADVERTISER wishes to purchase genuine Business; turnover £1,500 to £2,000 yearly; partnership in larger concern, with view to succession in stated period, not objected to; please send full particulars in confidence; must bear full investigation. Septimus" (208/29), Office of this Paper.

CHEMIST seeks a modern Business on the South Coast, preferably Western Counties; capital available £800; banker's references required and given. Apply 206/90, Office of this Paper.

GENUINE Chemist's Business wanted; turnover about £2,000 to £3,000; must bear strictest investigation; shop must be well fitted and, up to date, with house attached if possible; or partnership, with view to succession, entertained; particulars in strict confidence; London or good-class suburb preferred. H. Cooper, 3a Portman Mansions, Baker Street, W.

PHARMACIST desires situation with view to early succession; at liberty end of November; North of England preferred; business turning over £2,500-£3,000 per annum. Apply 207/26, Office of this Paper.

REQUIRED, for cash, a good Mixed Business in the South or West of England, with at least a six-roomed attached house available, and having a turnover of about £2,000 yearly. Apply 207/39, Office of this Paper.

SMALL neglected Pharmacy or Drug Store required at once; London suburban area preferred; house essential. Particulars as to price, lease, rent, rates, in first letter, P.C.B. 30/17, Office of this Paper.

BUSINESSES FOR DISPOSAL.

5s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LONDON, W.—Working-class district; Cash Retail, with N.H.I.; returns last year £1,800; net profit 33½%; rent £42. Full particulars on receipt of bankers' references. Replies, 210/4, Office of this Paper.

OXFORDSHIRE.—Old-established Business, with wine licence; excellent double-fronted shop and very convenient modern house, with vacant possession, in market town; shop well fitted a mahogany and well stocked; returns over £20 weekly; full particulars in return for banker's reference. 208/39, Office of this Paper.

SUFFOLK.—Opportunity to acquire an unopposed, old-established Business and freehold property; excellent situation; doing turnover of £2,000; premises just re-decorated outside; Business Light Middle-class, with Kodak and Ucal agencies; no Heavy or Agricultural trade; little booking; price, all in, about £1,650. Write 193/8, Office of this Paper.

WEST OF ENGLAND.—Genuine old-established good-class Business; excellent profits; easily worked; good living accommodation; long valuable lease; unique opportunity; valid reason for disposal; immediate transfer sacrifice for £1,900; particulars a return for bankers' reference. Apply 209/7, Office of this Paper.

YORKSHIRE.—Lock-up Pharmacy in busy working-class district; good position on main road; well stocked; present turnover £12 weekly; big scope for increase; rent £28 clear; price £280. Apply 204/37, Office of this Paper.

AS a going concern.—Drug Stores, smart shop (limited living accommodation); good lease, in well-known West-End centre, busy position, five minutes' walk from Marble Arch; opportunity for right man, on advantageous terms. Write 208/13, Office of this Paper.

FOR Sale, two Consulting Herbal Businesses; suit Chemists, Drug Stores; no opposition; shop and five rooms; near Stepney Station; and lock-up Shop, Market Street, Hackney; combined rents £1 18s. week clear; £300 for two Businesses, fixtures; immediate possession and first three months rent free. Apply Executor, 75 Goldsmith Row, Hackney.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

G. F. RIMLESS Eye-glasses, 24 fittings, in ebonised Show-case with plate-glass top; most useful for fitting and window-display; also lot of M. S. and G. F. best quality Spectacle Frames for prescription work; measured fitting sets for children and adults; offers wanted; about half value would be accepted. Apply 15/60, Office of this Paper.

WHAT offers, whole or part lot?—27 lb. Pulv. Rad. Rhei. (good quality), 28 lb. Solazzi, 14 lb. Acid Acetylsalicylic, 7 lb. Bismuth Carb., 6 lb. Gum Tragacanth Elect Pulv., 2 lb. Bism. Subnit., 3½ lb. Potass. Iodid. 208/6, Office of this Paper.

AGENCIES.

SWITZERLAND.—Active Representative, having office, Warehouses, and good connection generally with firms throughout Switzerland, desires to get in touch with first-class Wholesale firms dealing in Drugs, Herbs, and Chemical Products; excellent financial and commercial references can be produced. Write Case postale Mt. Blanc 6683, Genève.

OLD-ESTABLISHED firm in North of England, contemplating adding Chemists' Sundries Branch to business, invite correspondence from actual Manufacturers of all kinds of Chemists' Sundries, etc.; open to buy in large quantities; British or foreign. Full particulars and prices to 37/25T, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Assistant (male); Junior, unqualified; accustomed to high-class Dispensing and Photographic Business; must be a capable Dispenser and good Counterman; outdoors. Apply, stating age, experience, and salary required, Marshall Bros., Chemists, Moseley.

CORNWALL.—Qualified Assistant wanted at once; permanent position if suitable; knowledge of Photography essential; would suit person in not too robust health; partnership entertained later if desired. Apply Tonking & Rough, Chemists, St. Just.

HASTINGS.—Temporary Junior Assistant required at once in Dispensing Business. Apply, giving age, experience, and salary required, to Franklin Baird, Chemist, Hastings.

LONDON.—Junior, unqualified, not over 25, as Second Assistant, wanted promptly; outdoors; no Sunday or Bank Holiday duty. Apply by letter, giving particulars of age, total experience, salary required, etc., Crowe & Co., 19 Air Street, Regent Street, W. 1.

LONDON, N.—Unqualified (male) Assistant wanted, with knowledge of Dispensing and Photography, for good-class Retail and Dispensing business; please state full particulars, such as age, height, experience, references, salary required, and when disengaged in first letter. Apply 207/29, Office of this Paper.

LONDON, N.—Junior (male), September 24th; indoors; good-class suburban business; quick Counterman and accurate Dispenser; no Sunday duty; highest references essential. Apply, stating age, height, and salary expected (letters unanswered in three days declined), David Anderson, Chemist, Crouch End, N. 8.

LONDON, S.W.—Young unqualified Assistant with knowledge of Photography required for quick cash business with N.H.I.; good prospects for capable man; highest references essential; please state age, height, and salary required. Apply 205/30, Office of this Paper.

LONDON, S.W.—Messrs. Amore & Co., 173 Sloane Street, S.W., require an Outdoor Assistant; accustomed to good-class business. Apply, with full particulars, stating salary required, to A. H. Brooks, 173 Sloane Street, S.W.

LONDON, W.C.—Junior Assistant or Improver wanted at once. Apply J. W. Roberts, Chemist, 10 Tavistock Place, Russell Square, W.C.

MANCHESTER.—Wanted, a reliable Assistant with good Dispensing experience; must be a good Counterman and Window-dresser, and possess a knowledge of Photography. Apply, with full particulars, to R. G. Edwards, Pharmaceutical Chemist, Fallowfield.

MANCHESTER.—1st October, unqualified Assistant; experienced Counter and Dispensing; Photographic knowledge (printing and developing) essential. State salary and experience in first letter to "Rhei" (206/1), Office of this Paper.

MANCHESTER.—Qualified Assistant wanted; must be expert Window-dresser; knowledge of Photography essential. Apply, stating age, experience, and salary required, by letter only, to Shand & Orr, 301 Regent Road, Salford.

MANCHESTER.—Unqualified Assistant wanted in Light Retail Dispensing and Photographic business. Please state age, experience, references, and salary required in first letter, 209/10, Office of this Paper.

A JUNIOR or Improver for good-class Family and Dispensing business; good all-round experience and Photography; another Assistant kept. Full particulars, age, height, salary desired, or interview, Slade, Chemist, Station Parade, Kew Gardens.

A JUNIOR Assistant (outdoors) to assist in Wholesale and fill up time in Retail. Apply, stating fullest particulars as to age, height, reference, and photo, Oliver & Crick, Wholesale and Retail Chemists, Maidstone.

A SMART, unqualified Junior Assistant wanted at once with good Dispensing experience. Apply, with usual particulars, to W. H. Lester, c/o H. Lester & Son, 1 Bridge Street, Nuneaton.

A YOUNG qualified Assistant; good Dispensing and Counter experience essential; easy hours. Send full particulars, stating salary required, to Rees Walters, 93 Queen Street, Cardiff.

ASSISTANT (male), unqualified, wanted September 26th; must be accustomed to brisk Counter trade and N.H.I. Dispensing. Apply, giving full particulars and salary required, to "Gentian" (206/2), Office of this Paper.

ASSISTANT required with good all-round experience. Please state full particulars to Perfect & Co., 161 Commercial Road, Portsmouth.

ASSISTANT, Junior, or Turnover wanted (outdoors) for mixed country business; no N.H.I. Dispensing, no Sunday duty; state age, salary required; good references essential. W. Mousley, Chemist, Redditch.

CAPABLE Assistant wanted at once; must be reliable and trustworthy. Write, stating age, experience, salary required, and usual particulars, to Dales, Chemist, Stairfoot, Barnsley.

COMPETENT Assistant, about 25, outdoors, for September 25th, qualified preferred, in high-class Dispensing business, to take charge of Dispensing Counter and assist at Retail as required. State usual particulars to H. Dixon, 1 Russell Gardens, Kensington, W. 14.

GENTLEMANLY Assistant, with West-End experience; first-class Dispenser. Apply to M. Gluss, Heppells, 5 Buckingham Palace Road, S.W. 1.

GOOD Junior Assistant or Improver required, with good Dispensing experience and knowledge of Photography. Full particulars, with references, to A. B. Sparrow, Chemist, 143 Highland Road, Southsea.

J. WEARING, Pharmacist, Woking, has a vacancy for a smart gentlemanly Junior Assistant; must have very best recent testimonials as to Dispensing ability. State wages required (for outdoor berth) and usual particulars. Letters not answered in three days respectfully declined.

JUNIOR, capable and energetic, for mixed Retail and Dispensing. State age, height, salary, and reference (photo is convenient), Fisher, 98 Moston Lane, Harpurhey, Manchester.

JUNIOR Assistant or Improver wanted; outdoors. Apply, with particulars of experience, references, salary required, and when disengaged, to G. H. Cousins, M.P.S., Leek, Staffs.

JUNIOR wanted, energetic and well trained, accustomed to good-class business, in a fortnight. Address, with full particulars, "Gloucestershire" (209/39), Office of this Paper.

MANAGER (qualified), for small country town (30 miles London); good medium-class trade; must have had good experience, used to Counter Prescribing; capable Buyer and Stockkeeper; comfortable permanency for energetic and reliable man; no Sunday duty. State full details of experience, age, and salary expected, to "Nether-sole" (208/8), Office of this Paper.

PARKE'S DRUG STORES, LTD., require immediately the services of a Pharmacist for Branch Management; must be enterprising and energetic, have thorough knowledge of the business, and experience in the sale of Photographic materials and apparatus; good salary and commission to good man. Apply by letter, stating full particulars, to 65 Harwood Street, Camden Town, N.W. 1.

PHARMACIST-OPTICIAN required, qualified in both branches, for good-class business; single. Full particulars as to age, experience, references, salary, when disengaged, to E. T. Neathercoat, The Elms, Weybridge, Surrey.

QUALIFIED Manager required for branch, East London; Apprentice kept; easy work; must be quick Dispenser; vacancy open beginning October. Apply, with usual particulars, stating salary required, to P.C.B. 29/24, Office of this Paper.

QUALIFIED Assistant wanted for small Pharmacy; good Dispenser and sound knowledge of Photography; must be abstainer; permanency for suitable man; state age, experience, and salary required; references; South Wales town. Apply 207/31, Office of this Paper.

QUALIFIED, outdoors, hours 10 a.m. until 7 p.m., with two hours off for meals, for a country business, situated in a healthy district; Welsh-speaking preferred; half-day weekly; no Sunday duty; suit single elderly man; state wages. 210/5, Office of this Paper.

REAL live Salesmen wanted, with good connections among Retail Chemists, to sell exquisitely packed Toilet Requisites, etc., at competitive prices; packages sell at sight; splendid opportunity for pushing man; generous commission. Full particulars in confidence to P.C.B. 30/21, Office of this Paper.

WANTED, Junior Assistant, or one just left apprenticeship, for good-class Dispensing and Retail business in Eastern Counties; state age, height, salary indoors or outdoors, when disengaged, and names of employers. Apply 209/3, Office of this Paper.

WANTED, two lady Dispensers for Doctors' Surgeries in S.E. London; easy situations. Apply 204/33, Office of this Paper.

WANTED, for September 19th, qualified woman Pharmacist for old-established Dispensing and Family business in S.W. London; must have had shop experience and be quick and accurate Dispenser; hours light; please state salary. Apply 207/23, Office of this Paper.

WANTED, qualified Assistant; one who has served regular Apprenticeship, and accustomed to high-class Dispensing; no Photographics, Optics, nor N.H.I.; outdoors; hours of business 8.30 to 6. Full particulars, age, experience, salary, and last two references by letter to Mr. Lewis, Chemist, Ealing, W. 5. Applications not replied to in three days respectfully declined.

WANTED, competent, unqualified Assistant (outdoors) for light Counter work and Dispensing; permanency; state age, experience, and salary required, and enclose photo Rayner, Pharmacist, Gerrard's Cross.

WANTED, for branch, qualified Chemist. Apply, stating, age, salary required (outdoors), and details of experience. Applicants should not send photo or original testimonials until requested. Apply to "Yorkshire" (206/3), Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BERKS and **BUCKS.**—Representative required, with an established connection amongst Chemists on the above grounds, to carry winter Packed Goods (well known) on a good commission basis. Apply "Quality," 30 Brackley Road, Chiswick, W. 4.

N. OF WALES.—Established firm with some connection there; wish popular experienced Representative on liberal commission basis for Medicinal Capsules as a side line. Apply 204/36, Office of this Paper.

ASSISTANT Stockkeeper and Locker-Out wanted for Patent Medicines; London house; only quick, experienced man need apply. Give full particulars to P.C.B. 28/29, Office of this Paper.

FIRST-CLASS Representative required for Wales, preferably with established connection; whole-time appointment. Apply 32/83, Office of this Paper.

FORELADY required in London factory, to take complete charge in the manufacture of Surgical Belts and Suspensories, etc.; previous experience essential; applications should state full particulars of previous employment, length of service, and salary required. 208/36, Office of this Paper.

LEADING house of Manufacturers of Packed Pharmacy Specialties and Compressed Tablets require additional Representatives for London and for South Wales and South-Western Counties. Applications are only desired from salesmen with a live connection in these districts; gentlemen who are ambitious run their own cars and are real live wires, not order takers, who can develop and organise their territory. A high standard of efficiency will be expected and a liberal rate of remuneration paid. Give us all details in your first letter not forgetting evidence of what you are at present doing, the firms you have represented, and for how long. Apply 32/84, Office of this Paper.

QUALIFIED Assistant, 35-45, Welsh speaking, Veterinary Dispensing experience, for Agricultural business in market town, North Wales; easy hours and work. State wages required, "Veterinary," care of Evans Sons Lescher & Webb, Ltd., Hanover Street, Liverpool.

REPRESENTATIVE required, with first-class provincial connection in the Glass Bottle trade; a knowledge of Drugs would be advantageous. Apply 45/34B, Office of this Paper.

REPRESENTATIVES required already calling on Manufacturing Chemists (Wholesale); Lancashire, Yorkshire, West of England, Midlands, Scotland, and London; commission only; the goods are well-known and sole territories will be allotted; first-class men with sound connections and references only need apply; state district worked and goods carried. Write Box "S. T. O.," c/o Davies & Co., 95 Bishopsgate, E.C. 2.

REPRESENTATIVES wanted to sell Tablets, Fine Chemicals, Disinfectants, and Specialities in the Eastern and Midland Counties of England, London, and Home Counties; good commission, no salary or expenses; readily saleable lines. Full particulars to Pierson, Morrell & Co., Ltd., Queen's Road, Barnet.

TRAVELLER wanted for Yorkshire and Northern Counties, connection with Chemists in these counties required to sell proprietary lines. Write, stating age, experience, and salary required, and forward references, to 45/38B, Office of this Paper.

TRAVELLER wanted by well-known London house to work Lancashire; one with connection amongst Chemists' Stores and Hairdressers, to push high-class Packed Goods, Toilet Preparations, and well-advertised lines. State experience and terms to 3/48G, Office of this Paper.

TRAVELLER wanted by old-established English house, distilling Essential Oils, etc., to call on Wholesale Buyers in London, other parts of England, and Scotland; must have knowledge of the trade; Mining Lene experience an advantage; highest references required. Write, stating age, salary, to Mr. Christy, 62 Bank Chambers, W.C. 1.

TRAVELLER for London and country, having connection with Druggists' Sundries, Toilet Brushes. Write, in confidence, to C.B. 30/30, Office of this Paper.

WANTED, by old-established firm of manufacturing Chemists, Travellers calling upon Chemists in all districts of London and suburbs, to introduce competitive, well-packed, and ready-selling winter lines, on a high commission basis; good scope or the right men. Write, in strict confidence, stating districts covered and lines now carried, to "Sales Manager" (P.C.B. 7/7), Office of this Paper.

WANTED, Representatives for Midlands, Wales, and Eastern Counties, for excellent-selling Winter Line, on commission; good connection with Chemists necessary. 41/10V, Office of this Paper.

WANTED, a thoroughly experienced Compounder and Manufacturer of Soluble Flavouring Essences; experience with a reputable firm absolutely essential. Write, stating terms and particulars, 25/15N, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

MONTE CARLO.—English Assistants wanted for Monte Carlo; terms 650 francs per month (or 700 fr. if speaks French), 5 per cent. on sale of specialties of the firm, 300 francs for travelling expenses; hours of service 8.30 a.m. to 8 p.m., with two hours interval for luncheon, also bedroom; approximately five months. Apply 24/69, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.—QUALIFIED (28), first-class Dispensing and Counter experience, excellent references, permanency desired. North-East country preferred, but not essential. Williamson, 11 Nelson Terrace, Darlington.

A.A.—QUALIFIED, young, energetic, tall, good Salesman; Photography experience; excellent references; W. or S.W. district preferred; free 19th. Frith, 18 Langley Mansions, Vauxhall Park, S.W. 8.

A.—AN Assistant, unqualified; good all-round experience; good references; disengaged shortly; Midlands preferred (not essential). Apply 209/35, Office of this Paper.

A LOCUM or permanent berth desired by experienced Pharmacist; 40; single; at present engaged high-class Pharmacy; disengaged September 12; initial salary not so important as right berth where services of energetic and ambitious man would be appreciated; sound references. Locum, c/o Prescott, Chemist, Southport.

A PHARMACIST, long experience, reliable, capable; wife successful Saleswoman; joint engagement much esteemed. "Pharmacist," 12 Denne Road, Horsham.

A QUALIFIED Chemist as Manager or Assistant; 20 years' experience; permanency desired. Davies, Ty Cwrdd, Llwynhendy, Llanelli.

A QUALIFIED gentleman requires Managership in Blackpool with view to succession. Apply 191/23, Office of this Paper.

A QUALIFIED Assistant, 23, tall; seven years' experience; first-class references; Dispensing, Counter, Photography; come at once. Smith, 163 Cape Hill, Birmingham.

A N ambitious worker, desiring to improve my position; Retail experience; Photographic, Agricultural Dispensing, Sundries Salesman; prepared to give honourable services for progressive prospects; would travel or entertain anything progressive. Write to-day. "Push," 10 Blackeston Street, West Fleetwood, Lancs.

A S Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75250, Office of this Paper.

A S Assistant, elderly, requires work three days a week or part-time; references; good experience; London. Apply "Statim" (210/19), Office of this Paper.

A S Locum or permanency; Senior, 15 years' first-class Dispensing experience; reliable, immediately. Benson, 41 Spratthall Road, Wanstead, Essex.

A N experienced Dispenser (Hall), lady; experienced Hospital, Surgery, and Institution; excellent testimonials; in London or near. Apply 209/28, Office of this Paper.

A SSISTANT, unqualified, 33, good experience both Wholesale and Retail, desires post Manager Drug Stores; South Coast preferred. Apply 207/38, Office of this Paper. (Will advertiser send name to this Office?)

A SSISTANT, unqualified, excellent experience and references, passed part of Qualifying examination, 9 months' course School of Pharmacy, good all-round experience, desires permanency in Derby or Burton. State salary and usual particulars to Advertiser, 28 Langley Street, Derby.

A SSISTANT or Dispenser (lady); Hall qualification; five years' experience. Beynon, Llanstaint, Kidwelly, Carm.

A SSISTANT, 25, married; good experience Counter, Dispensing, Agricultural; references. Barnes, Thistlewood, Dalston, Carlisle.

A SSISTANT or Manager, unqualified; good Salesman and Counterman and all-round experience in Window-dressing, Prescribing, etc.; well-recommended; take sole charge; energetic and ambitious; permanency required. Salary and hours to 208/27, Office of this Paper.

A SSISTANT, unqualified; Counter, Dispensing, Photographics, Window-dressing; light Retail or Store trade; Metropolis of London only. Write "Sartor Resartus" (210/10), Office of this Paper.

A SSISTANT or Dispenser; outdoor; unqualified; 20 years' good all-round experience; single. P.C.B. 30/34, Office of this Paper.

BIRMINGHAM.—Senior Assistant; good experience; Dispenser, Salesman, Photography; studied for Minor; Wholesale or Retail; short hours. Cullum, 50 Thornhill Road, Handsworth, Birmingham.

BRANCH, Locum, Senior; 25 years' practical experience Dispensing, Prescribing, Dentistry, Photography; keen Salesman; permanency preferred; moderate terms. Munslow, Evesham.

CHEMIST'S daughter (23); experienced Counter and Stock. "M. D.," Mumby Vicarage, Ailford, Lincs.

DENTAL Operator (U.S.A. qualification) requires permanent berth; thorough Pharmaceutical experience; with or without view to partnership. Apply 210/16, Office of this Paper.

DISENGAGED—Unqualified (28); 14 years' experience high-class Dispensing, Counter, Photographic; excellent references. Douglas, 13 Coombe Street, Coventry.

DISPENSER, qualified, seeks position; South Coast, Bourne-mouth area preferred. Apply 199/11, Office of this Paper.

DISPENSER or Chemist's Assistant; 21; 4 years' experience as Apprentice and Assistant. M.L. 590, Office of this Paper.

DISPENSER (lady), 22, Hall certificate, desires post with Doctor or Chemist outside London; free now; good testimonials. Apply Sandes, 8 Bernard Gardens, Wimbledon.

ELDERLY, Qualified all round, single, competent, reliable, etc.; Locum, whole or part time; small salary. "Dispens," 35 Hateham Park Road, S.E. 14.

EX-SERVICE man, 22, with good theoretical knowledge of Chemistry; one year's practical experience in Chemical factories; educated Secondary School, University of Wales. Apply "M.L." 7238/21, Office of this Paper.

F. B. DI MENNA, Chemist, George Street, Lindley, Huddersfield, is free as Locum, Manager, or Senior; West Riding; many years' experience and highest references.

GENTLEMAN (31) desires post as Assistant in small country town or large village, or to manage Drug Stores in same; highest references; wide experience; South preferred. Apply "Statim" (208/30), Office of this Paper.

JUNIOR Assistant (female); age 22; five years' all-round experience, Dispensing and Counter; well recommended; passed Preliminary; Scotland or North of England preferred. Graham, c/o Ferrier, Chemist, Grangemouth.

JUNIOR Assistant; 4 years' apprenticeship; good Dispenser and Salesman; also good knowledge of Photography and Wholesale; Bristol, Bath preferred; good references; could wait for vacancy. Apply 210/3, Office of this Paper.

LADY, young; Apothecaries' Hall; six years last berth; good class Dispensing; Chemist, Doctor, or Institution; highest references. Banks, c/o Jones, Chemist, Swinton, Rotherham.

LADY Dispenser (young), Hall, desires post; Locum or permanency, with Doctor, Chemist, or Hospital; Torquay, Dartmouth, or Tor Bay districts. Hillside, Paignton, Devon.

LADY Dispenser, &c. (Hall) requires post; had a short experience with Chemist and three years with Doctor. Apply 204/12, Office of this Paper.

LADY Dispenser-Bookkeeper desires post with Doctor or Institution; Hospital experience; Hall certificate. Apply S., 10 Gauden Road, Clapham, S.W. 4.

LADY desires further experience in Dispensing; would assist Retail; moderate salary. Miss Stephens, c/o Smith's Book-stall, Church-Road, Hove, Sussex.

LADY Dispenser (20), Hall qualification, desires post; experience in Dispensing and Bookkeeping. Apply 209/11, Office of this Paper.

LADY (25), experienced, requires post in Perfumery department; good Window- and Counter-dresser. Apply 208/200, Office of this Paper.

LEICESTER or district preferred.—Assistant, unqualified, 29, married; well conversant with all the departments of Retail; sound references; permanency desired. Apply Statim, 175 Walsgrave Road, Coventry.

LIGHT or part-time berth; excellent references; 15 years' first-class businesses, chiefly Dispensing; free; or Locum. "J.", 6 Watford Heath.

LIVERPOOL.—Pharmacist (35) offers two or three days' relief per week; certificate available; state requirements; good references. Apply 210/1, Office of this Paper.

LOCUM, experienced, 46; take entire charge; terms moderate; disengaged September 25th onwards. "Chemicus," c/o Greenfield, Hunters Bar Pharmacy, Sheffield.

LOCUM, for Dispensing principally; qualified, elderly; provincial preferred. West, 47 Vicarage Road, Leyton, London.

LOCUM, thoroughly competent, unqualified; age 28; Dispensing, Counter, Photography; town and country; experience; at liberty; moderate salary. "Chemicus," 107 Ravenscroft Road, Canning Town, E. 15.

LOCUM, qualified, disengaged; highest references. 80 Sutton Road, Muswell Hill, N.10.

LOCUM or permanency; London; qualified; long experience; excellent testimonials; free September 18. M., c/o Horne, Chemist, Brightlingsea.

LOCUM, disengaged after September 22; qualified, reliable. M.P.S., 9 Carter Gate, Newark-on-Trent.

LOCUM, disengaged after September 25; reliable, experienced, qualified. M.P.S., 20 Cambridge Crescent, Edgbaston, Birmingham.

LOCUM, country, disengaged 18th; Minor; 54; first-class references and experience; moderate terms; Optics, Photography. Dewey, Mr. Nix, Chemist, Billericay.

LOCUM, qualified, disengaged September 22; thoroughly experienced; well recommended; terms moderate. Dear, 111 Royal Parade, Eastbourne.

LOCUM, disengaged September 19; long experience; highly recommended as Manager; highest references. "Qualified," The Pharmacy, Abertridwr, Cardiff.

LOCUM; qualified Dispenser; wide experience; abstainer; excellent references; disengaged. "Palatinoid," 82 Dahomey Road, Streatham, S.W. 16.

M.P.S., F.S.M.C., requires position middle of October; excellent Pharmaceutical and Optical experience. A. E. Thompson, Loakes House, High Wycombe, Bucks.

MANAGER; qualified; over 30 years' all-round experience; disengaged; Locum or permanency. "Kirk," 92 Falmouth Road, Newcastle-on-Tyne.

MANAGER, qualified, nearly 20 years' London, provincial, and Continental experience, desires permanency with view to succession on favourable terms; knowledge of Photographics and Optics; capital available. Apply P.C.B. 26/30, Office of this Paper.

MANAGER or Locum; qualified, experienced, and energetic; disengaged 19th September. Thorley, 27 Crouch Hill, N. 4.

MANAGER, qualified (1911); abstainer; married; good experience; living accommodation in the district essential; permanency; reliable; suburbs or within 50 miles London. C. E. Beer, 98 Greyhound Lane, Streatham, S.W.

MANAGER or Senior (29) requires permanent position, Prescribing, Photographic, and Dispensing; view partnership or succession; 12 years' City, West End, and Suburban experience, London district; state hours and salary; good references. Mason, 61 Wydehurst Road, Addiscombe, Croydon.

P.H.C. (Ireland), ex-Army, requires post; best experience; aged 26 years; I.C. reference. Apply 203/10, Office of this Paper.

NUNC VEL QUAMPRIMUM.

ASSISTANT, W. or S.W. London; part time or full time; age 25; passed Part 1; good Dispenser, with excellent references; good appearance; well up in Prescribing, Photo, and Counter; specialist in filling temporary vacancies; able to take charge anywhere. Please state salary offered. W. A. Findlay, 34 Rectory Grove, S.W. 4.

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PHARMACIST (30); experienced all branches; energetic, reliable, trustworthy; excellent references. Apply "E.B." (208/20), Office of this Paper.

QUALIFIED, 32, single, 15 years' all-round experience since qualifying, active, willing worker, and thoroughly competent, desires permanency; management, with interest or working partnership in genuine sound concern preferred; Yorks district if possible, but not essential; good references. J. R. Wilson, Norland Hall, Norland, near Sowerby Bridge.

QUALIFIED Chemist (48); experienced Dispenser, all-round experience, also N.H.I. and Institution; knowledge French and German; shortly at liberty. "Pharmacist," 172 Albany Street, Regent's Park, N.W.

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QUALIFIED (22), all-round experience, seeks permanency, Manager or Assistant; country business in Midlands preferred; at present doing Locum. Apply Collins, Chalmers & Son, Newport, Salop.

QUALIFIED, capable, energetic; highest references; absolutely reliable; Branch Manager or Assistant. Venables, 84A High Street, Putney, S.W. 15.

QUALIFIED (36); permanency or locum; disengaged middle September; best Dispensing and Counter. Chemist, 7 Denbigh Place, S.W. 1.

QUALIFIED, as Manager; permanency; married; age 31; 10 years' good experience; excellent references; Organiser, Salesman, etc. State full particulars to "Yelnats" (209/14), Office of this Paper.

SENIOR or Manager desires situation in high-class Dispensing and Retail business; West-End and South Coast experience; excellent references. 208/10, Office of this Paper.

SMART Assistant, age 38, requires a good situation; well conversant with all the departments of the Retail; well educated; sound references. Apply "Reliable" (197/30), Office of this Paper.

SMART, experienced Pharmacist-Manager; disengaged September 26th; locum or permanency preferred; London or Home Counties; married. "Tristan," 26 Fox Hill, S.E. 19.

THE Erasmie Company, Limited, would like to recommend a first-class lady Assistant who is leaving their services on account of the expiration of the lease of their premises in New Bond Street, London, W. Anyone interested should apply in the first instance to J. H. B. Wigginton, F.C.S., M.P.S., Managing Director, The Erasmie Co., Ltd., Warrington.

UNQUALIFIED Assistant, age 25, requires situation; Brighton or district; nine years' experience; also excellent Photographic experience. Apply "George," 13 Quebec Street, Brighton.

UNQUALIFIED Assistant (22), disengaged, seeks situation; salary required £3; good Dispensing and Counter experience. 210/12, Office of this Paper.

YOUNG lady, B.Sc. (Pharmaceutics), M.P.S., desires post. Address "H. C.," Oak Mount, Whaley Bridge, Stockport.

YOUNG Lady (21), unqualified; four years' experience Counter, Dispensing, Photographic; disengaged; London experience. G. Drew, Nelgwen, Sidmouth, Devon.

YOUNG Lady, five years' experience Dispensing and Counter, free end of September, desires post; London preferred, but not essential. Full particulars and salary, 209/5, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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S Representative, ex-officer, 39, single; educated Rugby Lower School and Metropolitan College of Pharmacy; qualified pharmacist; fluent French; four years' experience as Assistant chemist, six years in charge of business with important Pharmaceutical firms; first-class experience in U.S.A., South African, and Australian trade; thorough knowledge of home and foreign chemical trade; willing to go abroad. Apply M.L. 7316/21, Office of this Paper.

S Traveller; age 21; tall, good address; Retail experience. "Chemicus," 37 Braithwaite Road, Birmingham.

S Welsh Representative or Manager, a thoroughly competent, energetic, and trustworthy qualified Pharmacist, with excellent London and provincial references; Welsh connections and courage. Williams, 14 Penn Road, Wolverhampton.

ASSISTANT or Traveller; 33; married; knowledge of French; 6 years' experience as Chemist's Assistant; general business training. M.L. 43432, Office of this Paper.

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EX-MERCHANT (38) seeks position as Buyer, Manager, Salesman, Bookkeeper; 18 years' experience Drugs, Chemicals, Medicinal Plants. "Medica" (208/23), Office of this Paper.

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LANCASHIRE AND DISTRICT.—Representative, with extensive connection of many years standing, open for engagement; stocked Drugs, Proprietary lines, Chemists' Sundries, etc.; capable salesman; active and energetic; first-class references. Address C. Harrison, 15 Leyland Avenue, Didsbury, Manchester.

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MANUFACTURING Chemist, 24, educated Hartley University, fluent Spanish, good knowledge Chemistry, manufacturing and Pharmaceutical, buying experience, wishes to go abroad; pain or Spanish-speaking countries. Apply M.L. 13256, Office of this Paper.

QUALIFIED Chemist (35) is open to accept permanent engagement as Warehouse, Laboratory, or Departmental Manager; 3 years' experience, Manufacturing and Wholesale, London and provinces; practised in office routine. 208/12, Office of this Paper.

QUALIFIED Pharmacist, aged 30, married, with excellent experience in clinical laboratory work (urinalysis, Wassermann's reaction blood work, etc.), desires position. Apply 207/17, Office of this Paper.

REPRESENTATIVE.—Pharmacist, having disposed of his West-End business, is open to accept Representative position; whole or part time; 40 years' Retail experience. "Active" P.C.B. 28/30, Office of this Paper.

SALES Manager or Traveller; ambitious, experienced, young man; London, Eastern, Home Counties; Chemists, Perfumers, etc.; first-class references; can drive car. "R.", 32 Ansdowne Road, Seven King's, Essex.

SALESMAN, Manager, or Buyer in the Chemical trade; 37; single; 15 years' experience as Junior to Departmental manager, 1 year as Buyer and Salesman to Chemical Merchants, also 2 years' experience as Manager of Chemical Department for General Merchants. M.L. 2915/21, Office of this Paper.

TRAVELLER, Assistant, or Hospital Dispensing; age 26, tall; seven years' Retail and Dispensing experience; served four years Army during war; salary, reasonable offer agreed to; permanent; progressive, willing worker; any branch; district, Yorkshire preferred, but not essential. Address "Rhei" (206/5), Office of this Paper.

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TABLETS and Pills.—Advertiser, experienced in all branches, desires position as Manager of Department; first-class practical man, with organising ability, possessing initiative and energy. T. K. 208/38, Office of this Paper.

WHOLESALE or Retail; 22; trained at London College of Pharmacy; five years' experience; willing to go abroad. M.L. 6039/21, Office of this Paper.

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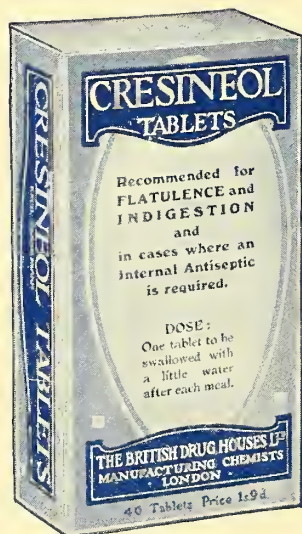
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